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A list of books in the reading room January 1900 ...

John Crerar
Library

B 535.3.9

1861



Harvard College Library

FROM

The Library

3 Aug. 1900.

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THE JOHN CRERAR LIBRARY

A LIST OF
BOOKS IN THE READING ROOM
JANUARY, 1900



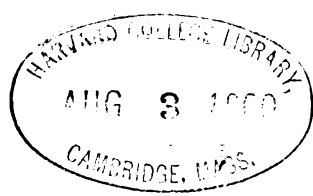
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The Library

PREFACE.

By the will of John Crerar, for many years an honored citizen of Chicago, who died October 19, 1889, the residue of his estate, after the payment of numerous bequests, was given for the creation and endowment of a free public library, to be called THE JOHN CRERAR LIBRARY, and to be located in the city of Chicago. The Library was incorporated under the laws of Illinois, October 12, 1894, and was duly organized January 12, 1895.

Having carefully considered the library facilities and needs of the city, the Directors decided to establish a reference library of scientific literature. This decision seemed to them to accord with the business activities by which the greater part of Mr. Crerar's fortune had been accumulated, to exclude, naturally, certain questionable classes of books which his will prohibits, and to favor the supreme aim and object which it proposes.

A series of conferences with the Chicago Public Library and The Newberry Library was instituted, and an elastic scheme was jointly adopted for dividing among them the available world of books. In accordance with that scheme, the special field of The John Crerar Library is that of the natural, the physical, and the social sciences, with their applications. In the development of the Library, the Directors do not propose to make a greatly disproportionate outlay in any one subject within this field. They do propose, however, to make it exceptionally rich in scientific periodicals and publications of learned societies.

The total endowment, which should be sufficient ultimately to allow the making of a good collection within the limits adopted, will not be encroached upon for any purpose. Therefore, while a building fund is accumulating, and the present temporary accommodations remain adequate, the Library will occupy the entire sixth floor and part of the fifth floor of the Marshall Field & Company Building, 87 Wabash Avenue.

A complete catalogue of the Library is printed on cards. Copies of these, arranged by authors and subjects, are placed in the Reading Room for use by the public, and a copy of each title may be found also in the Chicago Public Library, the Newberry Library, and in the libraries of the Armour Institute of Technology, the Field Columbian Museum, and the University of Chicago, in the city, the Northwestern University at Evanston, and the University of Illinois at Champaign. The multiplication of copies in card form, however, is limited by the cost of material and distribution, so that provision has been made, by

electrotyping each title, for the publication of bulletins, as they may be required.

The list of books in the Reading Room has been chosen as the subject of the first of these bulletins. This collection contains nearly three thousand volumes, and is used by the public without any formality. It is intended to include, besides general works of reference, the best books, both advanced and popular, on each important subject within the scope of the Library, and a selection of others either especially interesting in their treatment of the subject or much in demand. Works in languages other than English are included whenever necessary for an adequate presentation of the subject, and the collection undergoes constant revision.

While the Library in making the selection has had the benefit of suggestions from many persons able to speak with authority, it is felt that the collection can be improved greatly, though it is hoped more by addition than by subtraction, and this bulletin has been prepared at the present time mainly as a means of securing valuable criticism and aid, and not as a bibliographical contribution of intrinsic value. As it is also an experiment in the use of electrotyped titles, peculiarities of typographical arrangement have been determined largely by the previous use of the matter on printed catalogue cards, and inconsistencies in the form of entry are due to the fact that it has not always seemed necessary to reprint the cards when a change in method has been made. If the Library can secure expert advice in improving the collection, and can issue small editions at comparatively frequent intervals and at reasonable cost, it is hoped that future editions of this list may prove to be of value to others than readers in the Library.

CHICAGO, January, 1900.

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SPECIAL CARD INDEXES

Bibliographia zoologica.

- ¹⁸⁹¹⁴ **Bibliographia zoologica.** Continued from no. 1. 1896. Zurich 1896—.

Compiled under the direction of H. H. Field, of the Concilium bibliographicum, Zurich.

Card index; filed in Reading Room.

Also published in book form as supplement to *Zoologischer Anzeiger*; has shelf number **016.59 B47**

Clark, Josephine Adelaide.

- ¹⁸⁹¹³ Card-index of genera, species, and varieties of plants. Continued from no. 1. 1885. Washington 1885—.

Filed in Reading Room.

Congrès international de bibliographie des sciences

- ¹⁹⁰³⁵ **mathématiques.** *Commission permanente du répertoire.*

Répertoire bibliographique des sciences mathématiques. Continued from no. 1. Paris: Gauthiers-Villars, 1894—.

Card-index; filed in Reading Room.

Congrès international de bibliographie des sciences **L025.4 C76**

- ⁹¹⁰³⁷ **mathématiques.** *Commission permanente du répertoire.*

Index du Répertoire bibliographique des sciences mathématiques, publié par la Commission permanente du répertoire. Deuxième édition. xiv,93,[2] p. Q. Paris: Gauthier-Villars & fils, 1898.

Fourtier, [H.], Bourgeois, —, & Bucquet, —.

- ¹⁹⁰²⁴ **Bibliothèque photographique.** Le formulaire classer du Photo-club de Paris. Formules, notes, renseignements pratiques, recueillis et annotés. Continued from no. 1. 1892. Paris: Gauthier-Villars & fils, 1892—.

Card-index; filed in Reading Room.

Torrey Botanical Club.

- ¹⁸⁹¹⁸ **Bibliography of American Botany.** Published monthly. Vol. 1—6. 1894—1899. Cambridge, Mass., 1894—1899.

No more published.

Reprinted from *Bulletin of the Torrey Botanical Club*, vol. 21—26.

Card index; filed in Reading Room.

U. S. A. Department of Agriculture.

¹⁴³³¹ [Card index to publications.] Continued from no. 1. [Washington 1899-.]

Filed in Reading Room.

U. S. A. Department of Agriculture.

¹⁸²¹⁰

Office of Experiment Stations.

Subject index of literature of agricultural experiment stations and kindred institutions. Continued from no. 1. 1888. Washington 1888-.

Card index; filed in Reading Room.

U. S. A. Department of Agriculture.

016.63 U58

¹⁸²¹¹

Office of Experiment Stations.

Key to subject index of literature of agricultural experiment stations and kindred institutions. . . . Revised June 25, 1897. [4] p. O. (Circular no. 23.) [Washington 1897.]

000 GENERAL WORKS**010 BIBLIOGRAPHY****010-016 GENERAL BIBLIOGRAPHIES**

Wheeler, William Adolphus. **010.3 W56**

¹³²⁷² Who wrote it? An index to the authorship of the more noted works in ancient and modern literature. Edited by Charles G. Wheeler. [2], 174 p. sq. D. Boston: Lee & Shepard, 1882.

Allibone, Samuel Austin. **L015.42 A436**

⁴⁵¹ A critical dictionary of English literature, and British and American authors, living and deceased, from the earliest accounts to the latter half of the nineteenth century. . . . 3 vol. Q. Philadelphia: J. B. Lippincott Co., 1891.

Kirk, John Foster. **L015.42 A436i**

⁴⁵² A supplement to Allibone's Critical dictionary of English literature and British and American authors. . . . 2 vol. Q. Philadelphia: J. B. Lippincott Co., 1892.

Georg, Carl, & Ost, Leopold. **L015.43 G29**

²²⁻⁹ Schlagwort-Katalog. Verzeichnis der Bücher und Landkarten in sachlicher Anordnung. . . . 2 vol. Q. Hannover: [vol. 1], F. Cruse; vol. 2, L. Lemmermann, 1889-1898.

Contents: [vol. 1], 1883-1887; vol. 2, 1888-1892.

Vol. 2 published under the title: Karl Georgs Schlagwort-Katalog. . . . Bearbeitet von Karl Georg.

Sonnenschein, [William] Swan. **L016 S699**

⁴⁴⁹ The best books. A reader's guide to the choice of the best available books (about 50,000) in every department of science, art and literature; . . . A contribution towards systematic bibliography. . . . Second edition. [18], cix, 1009 p. Q. London: Swan Sonnenschein & Co., 1894.

Sonnenschein, [William] Swan. **L016 S699i**

⁴⁵⁰ A reader's guide to contemporary literature. Being the first supplement to The best books. . . . [16], lxxiv, 775 p. Q. London: Swan Sonnenschein & Co., 1895.

Fletcher, William Isaac.**Lo16.04 F63**

- ¹⁷⁸ The "A. L. A." index. An index to general literature: biographical, historical, and literary essays and sketches, reports and publications of boards and societies dealing with education, health, labor, charities and corrections, etc., etc. . . . Issued by the publishing section of the American Library Association. v, [2], 329 p. Q. Boston: Houghton, Mifflin & Co., 1893.

**016.05-016.06 BIBLIOGRAPHIES OF PERIODICALS AND
PERIODICAL LITERATURE**

Cleveland. Public Library.**Lo16.05 C59**

- ⁷³⁰¹ Cumulative index to a selected list of periodicals. Authors, subjects, titles, reviews, portraits. Continued from vol. 1. 1896. Q. Cleveland 1897-.

Annual literary index.**Lo16.05 A615**

- ⁹²⁷ The Annual literary index, including periodicals, American and English; essays, book-chapters, etc.; with author-index, bibliographies, necrology, and index to dates of principal events. Edited with the coöperation of members of the American Library Association and of "The Library journal" staff. Continued from vol. 1. 1892. Q. New York: Publishers' Weekly, 1893-.

Edited by W. I. Fletcher and R. R. Bowker.

Italy. Camera dei Deputati. Biblioteca.**Lo16.05 I88**

- ²³¹² Catalogo metodico degli scritti contenuti nelle pubblicazioni periodiche italiane e straniere. Parte prima. Scritti biografici e critici. xvii, 517, [1] p. Q. Roma 1885.
 ——— Primo supplemento. xiv, 173 p. Q. Roma 1889.
 ——— Secondo supplemento. xxiv, 229 p. Q. Roma 1890.
 ——— Terzo supplemento. xxix, [3], 338 p. Q. Roma 1895.

Poole's Index.**Lo16.05 P781**

- ²⁰⁹⁸ Poole's Index to periodical literature. By William Frederick Poole, with the assistance as associate editor of William I. Fletcher, and the coöperation of the American Library Association and the Library Association of the United Kingdom. Revised edition. 1802-1881. Vol. 1 in 2 parts, paged continuously; part 1: [2], xxvii, 1-700 p.; part 2: [2], 701-1442 p. Q. Boston: Houghton, Mifflin & Co., 1893, c. 1882.

Poole's Index.**Lo16.05 P782**

- ²⁰⁹⁶ Poole's Index to periodical literature. The first supplement from January 1, 1882, to January 1, 1887, by William Frederick Poole and William I. Fletcher, with the coöperation of the American Library Association. xiii, 483 p. Q. Boston: Houghton, Mifflin & Co., 1893, c. 1888.

Lettered on the back: Vol. II.

Poole's Index.**Lo16.05 P783**

- ²⁰⁹⁷ Poole's Index to periodical literature. The second supplement, from January 1, 1887, to January 1, 1892, by William I. Fletcher, with the coöperation of the American Library Association. xiii, 476 p. Q. Boston: Houghton, Mifflin & Co., 1895.

Lettered on the back: Vol. III.

Poole's index.**Lo16.05 P784**

- ²⁰²² Poole's index to periodical literature. Third supplement. From January 1, 1892, to December 31, 1896. By William I. Fletcher and Franklin O. Poole. With the coöperation of the American Library Association. xix, 637 p. 1 por. Q. Boston: Houghton, Mifflin & Co., 1897.

Review of reviews.**Lo16.05 R32**

- ²⁴²¹ Index to the periodicals Continued from 1890. sq. Q. London [1891-].

The issue for 1890 published under the title: The Annual index of periodicals and photographs; 1891-1893: Index to the periodical literature of the world.

Ayer & Son, N. W., publishers.**Lo16.051 A976**

- ⁷⁰⁵⁹ N. W. Ayer & Son's American newspaper annual. Containing a catalogue of American newspapers, A list of the newspapers of the United States and Canada which insert advertisements, Separate lists of religious and agricultural publications, Continued from 1897. Q. Philadelphia 1897-.

Bibliographie.**Lo16.053 B47**

- ¹²³⁷² Bibliographie der deutschen Zeitschriften-Litteratur. Alphabetisches nach Schlagworten sachlich geordnetes Verzeichnis von . . . Aufsätzen, die . . . in . . . Zeitschriften deutscher Zunge erscheinen sind, Continued from vol. I. 1896. sq. Q. Leipzig 1897-.

Edited by F. Dietrich.

Répertoire.**Lo16.054 R29**

- ¹⁴⁷⁴⁴ Répertoire bibliographique des principales revues françaises Continued from [no. 1]. 1897. Q. Paris 1898-.

Edited by D. Jordell.

Smithsonian Institution.**016.061 S664**

- ³²⁸⁹ Publications of the Smithsonian Institution. May, 1896. I. Classified list. II. Numerical list. III. Tables. IV. Index. By William J. Rhees. iv,86 p. O. City of Washington 1896.

Smithsonian Institution.**016.061 S664I**

- ³⁰¹⁶ Catalogue of publications of the Smithsonian Institution, (1846-1882,) with an alphabetical index of articles in the Smithsonian contributions to knowledge, miscellaneous collections, annual reports, bulletins and proceedings of the U. S. National Museum, and report of the Bureau of Ethnology. By William J. Rhees. xiv,328 p. O. Washington 1882.

016.1-016.9 BIBLIOGRAPHIES OF SPECIAL SUBJECTS**Bowker, Richard Rogers, & Iles, George, editors.****016.3 B67**

- ³⁴² The reader's guide in economic, social and political science; being a classified bibliography, ... with ... courses of reading, college courses, etc. [2],169 p. D. (Economic tracts, no. 27.) New York: G. P. Putnam's Sons, 1891.

La Fontaine, H., & Otlet, P.**016.3 L11**

- ⁵⁹⁵⁹ ... Bibliographia sociologica. Sociologie et droit. Sozialwissenschaft und Recht. Sociology and law. Sommaire méthodique des traités et des revues, dressé conformément à la classification décimale. xiii,[34],170 p. O. Bruxelles: Office internationale de bibliographie, [189-].

Mühlbrecht, Otto.**016.3 M89**

- ¹³³⁷ Wegweiser durch die neuere Litteratur der Rechts- und Staatswissenschaften. ... Zweite umgearbeitete und vermehrte Auflage. [2],xxviii,748 p. O. Berlin: Puttkammer & Mühlbrecht, 1893.

Stammhammer, Josef.**016.3 S783**

- ⁷³⁰⁹ Bibliographie der Social-Politik. iv,648 p. Q. Jena: G. Fischer, 1896.

Marot, Helen.**016.33 M34**

- ¹⁸⁵²⁶ A handbook of labor literature. Being a classified and annotated list of the more important books and pamphlets in the English language. vi,96 p. D. Philadelphia: Free Library of Economics & Political Science, 1899.

Rand, Benjamin, *Pl. D.***016.33 R15**

- ¹²⁷ A bibliography of economics. [2],88 p. O. Cambridge: J. Wilson & Son, 1895.

Stammhammer, Josef.

Lo16.335 S783

¹³⁰⁶ Bibliographie des Socialismus und Communismus. iv,303 p. Q.
Jena: G. Fischer, 1893.

Gross, Charles.

016.352 G91

¹⁴⁰⁸⁷ A bibliography of British municipal history including gilds and parliamentary representation. xxxiv,461 p. O. [HARVARD UNIVERSITY. Harvard historical studies, vol. 5.] New York: Longmans, Green, & Co., 1897.

Hasse, Adelaide Rosalia.

016.353 H271

¹⁸⁵⁹⁸ Reports of explorations printed in the documents of the United States government. (A contribution toward a bibliography.) 90 p. O. (U. S. A. GOVERNMENT PRINTING OFFICE. SUPERINTENDENT OF DOCUMENTS.) Washington 1899.

Hickcox, John Howard.

016.353 H52

¹⁵⁹⁸⁴ United States government publications. A monthly catalogue. Vol. 1-10. 1885-1894. O. Washington, D. C., 1885-1894.
No more published.

Poore, Benjamin Perley.

Lo16.353 P79

¹²⁵⁸⁷ A descriptive catalogue of the government publications of the United States, September 5, 1774-March 4, 1881. Compiled by order of Congress. iv,1392 p. sq.Q. Washington 1885.

U. S. A. Government Printing Office.

016.353 U58

³⁰²²

Superintendent of Documents.

Checklist of public documents, containing debates and proceedings of Congress, from the first to the fifty-third Congress, together with miscellaneous lists of documents, and historical and bibliographical notes. Second edition, revised and enlarged. Issued by F. A. Crandall. 222 p. O. Washington 1895.

U. S. A. Government Printing Office.

Lo16.353 U581

¹⁸⁷²

Superintendent of Documents.

Catalogue of the public documents of ... Congress and of all departments of the Government of the United States ... (Being the "Comprehensive Index" provided for by the act approved January 12, 1895.) Prepared under the supervision of the Superintendent of Documents, Government Printing Office. Continued from the Fifty-third Congress, March 4, 1893. Q. Washington 1896.

U. S. A. Department of the Interior.

Lo16.353 U582

¹¹⁴⁹

Superintendent of Documents.

Comprehensive index of the publications of the Government, 1889-1893. By John G. Ames. vi,[2],480 p. sq.Q. Washington 1894.

U. S. A. Government Printing Office. **016.353 U583**
6939 *Superintendent of Documents.*

... . Index to the subjects of the documents and reports and to the committees, senators, and representatives presenting them. (Being the "consolidated index" provided for by the act of January 12, 1895.) Compiled under the direction of the Superintendent of Documents. Continued from [no. 1]. 54th Congress, 1st session, Dec. 2, 1895. O. Washington 1897.

U. S. A. Government Printing Office. **016.353 U584**
19013 *Superintendent of Documents.*

Catalogue of United States public documents. Issued monthly by the Superintendent of Documents, Government Printing Office. Continued from [no. 1]. January, 1895. O. Washington 1895-.

No. 1-3 published under the title: Catalogue of publications issued by the Government of the United States

U. S. A. Department of the Interior. Bureau of Education. **016.353 U587**

6795 Publications of the U. S. Bureau of Education, from 1867 to 1890, with subject-index. . . . [2], 1453-1551 p. O. Washington 1891.

Reprint of chapter 30 of the *Report of the Commissioner of Education for 1888-89*.

Warman, Philip Creveling. **016.353 W23**

19032 Bibliography and index of the publications of the United States geological survey, with the laws governing their printing and distribution. 495 p. O. [U. S. A. DEPARTMENT OF THE INTERIOR. GEOLOGICAL SURVEY.] Washington 1893.

Hall, Granville Stanley, & Mansfield, John M. **016.37 H14**

3935 Hints toward a select and descriptive bibliography of education. Arranged by topics, and indexed by authors. xv, 309 p. D. [Heath's pedagogical library.] Boston: D. C. Heath & Co., 1893.

Monroe, Will Seymour. **016.37 M75**

8316 Bibliography of education. xxiv, 202 p. D. (International education series, vol. 42.) New York: D. Appleton & Co., 1897.

American Manual Training Association. **016.371 A512**

16379 A bibliography of manual training. Prepared by the American Manual Training Association. 24 p. O. New York 1898.

Revue. 016.51 R32

- ⁶⁴⁸⁴ Revue semestrielle des publications mathématiques, rédigée sous les auspices de la Société Mathématique d'Amsterdam. . . . Continued from vol. 1. [1892.] O. Amsterdam 1893-.

Contains a check-list of periodicals indexed, in which those taken by Dutch libraries are indicated.

Tuckerman, Alfred. 016.536 T79

- ³⁰³⁹ Index to the literature of thermodynamics. v,239 p. O. (SMITHSONIAN INSTITUTION. Smithsonian miscellaneous collections, vol. 34.) Washington 1890.

Osterberg, Max. 016.537 O85

- ¹⁰⁹⁵² Synopsis of current electrical literature. Compiled from . . . technical journals and magazines during 1895. . . . xiii,[2],143 p. Q. New York: D. Van Nostrand Co., 1896.

Ronalds, Sir Francis. 016.537 R66

- ²⁰⁵¹ Catalogue of books and papers relating to electricity, magnetism, the electric telegraph, &c., including the Ronalds library. With a biographical memoir. Edited by Alfred J. Frost. (Published by the Society of Telegraph Engineers.) xxvii,564 p. O. London: E. & F. N. Spon, 1880.

Bolton, Henry Carrington. 016.54 B63

- ¹⁹⁷³ A select bibliography of chemistry. 1492-1892. xiii,1212 p. O. (SMITHSONIAN INSTITUTION. Smithsonian miscellaneous collections, 850.) City of Washington 1893.

Geological record. 016.55 G29

- ¹⁷⁹⁴⁶ The Geological record A list of publications on geology, mineralogy, and palæontology Vol. 1-[8]. 1874-1884. O. London 1875-1889.

Vol. 1-4 edited by William Whitaker, and 5-6, by W. Whitaker and W. H. Dalton, were published annually with sub-title: An account of works on geology, mineralogy, and palæontology, [Vol. 7-8], edited by William Topley and Charles Davies Sherborn, cover, in one arrangement, the five-year period from 1880-1884.

Vol. 2-6 contain a cumulative supplement to the previous volumes.

No more published.

Ripley, William Zebina. 016.572 R48

- ¹⁸⁷⁵⁷ A selected bibliography of the anthropology and ethnology of Europe. x,160 p. O. Boston: published by the Trustees of the Public Library, 1899.

Including the works on these subjects in the Boston Public Library.

Also published as [vol. 2] of *The races of Europe*, by the same author, which has shelf number 572.94 P900

Bibliographia zoologica.**016.59 B47**

- ¹⁴⁷⁸⁶ *Bibliographia zoologica* (diario "Zoologischer Anzeiger" adnexa) adjuvante concilio bibliographico quod Turici praeside H. H. Field institutum est. . . . Continued from vol. 1. [1896.] O. Lipsiae 1896—.

Published as supplement to *Zoologischer Anzeiger*, vol. 19—, and continuing the "Litteratur" in previous vol. of this, which has shelf number **590.53 8**.

Edited by J. Victor Carus.

Carus, Julius Victor, & Engelmann, Wilhelm.**016.59 C25**

- ²²¹⁴ *Bibliotheca zoologica*. Verzeichniss der Schriften über Zoologie, welche in den periodischen Werken enthalten und vom Jahre 1846—1860 selbständig erschienen sind. Mit Einschluss der allgemein-naturgeschichtlichen, periodischen und palaeontologischen Schriften. 2 vol. O. Leipzig: W. Engelmann, 1861.

Taschenberg, Otto.**016.59 T18**

- ¹³⁴⁹ *Bibliotheca zoologica* II. Verzeichniss der Schriften über Zoologie, welche in den periodischen Werken enthalten und vom Jahre 1861—1880 selbständig erschienen sind. Mit Einschluss der allgemein-naturgeschichtlichen, periodischen und palæontologischen Schriften. Vol. 1—. O. Leipzig: W. Engelmann, 1887—.

Hagen, Hermann August.**016.5957 H12**

- ²¹³⁹ *Bibliotheca entomologica*. Die Litteratur über das ganze Gebiet der Entomologie bis zum Jahre 1862. 2 vol. O. Leipzig: W. Engelmann, 1862—1863.

Association of Engineering Societies.**016.6 A849**

- ¹¹⁸⁸⁵ *The engineering index*. . . . Vol. 1—2. O. Vol. 1, Chicago: Association of Engineering Societies; vol. 2, New York: Engineering Magazine, c. 1892—1896.

Contents: Vol. 1. 1884—1891. Vol. 2. 1892—1896.

Edited by J. B. Johnson.

Vol. 1 published under the title: Descriptive index of current engineering literature. Originally published in the Journal of the Association.

Galloupe, Francis Ellis.**016.6 G13**

- ⁵¹²³ *An index to engineering periodicals, 1883 to [1892], inclusive*. Comprising engineering; railroads; science; manufactures and trade. 2 vol. O. Boston 1888—1893.

Vol. 2 published under the title: Galloupe's general index to engineering periodicals.

Haferkorn, Henry Ernest.**016.6 H11**

- ³²²³ *Handy lists of technical literature*. Reference catalogue of books printed in English from 1880 to 1888, inclusive; to which is added a select list of books printed before 1880 and still kept on publishers' and jobbers' lists. Parts 1—6 in 1 vol. O. Milwaukee, Wis.: parts 1—2: National Publishing and Printing Co.; parts 3—6: H. E. Haferkorn, 1889—1891.

Parts 1 and 2 compiled by Henry E. Haferkorn and Paul Heise.

Repertorium.**L016.6 R29**

- ³⁴¹⁹ Repertorium der technischen Literatur die Jahre 1823 bis einschl. 1853 umfassend. . . . Bearbeitet von Dr. Schubarth. Herausgegeben im Auftrage des Königlichen Ministeriums für Handel, Gewerbe und öffentliche Arbeiten. xvi, 1049 p. O. Berlin: Deckersche Hofbuchdruckerei, 1856.

Repertorium.**L016.6 R291**

- ³⁴²¹ Repertorium der technischen Journal-Literatur. Herausgegeben im Kaiserlichen Patentamt. Continued from 1854. Q. Berlin 1881—.

Continuation of Repertorium der technischen Literatur, 1823–1853.

From 1854 to 1881 edited by Bruno Kerl; from 1882–1885 by Rud. Biedermann; from 1886–1894 by Dr. Rieth.

Contents: 1854–1868 in 2 vol.: vol. 1, A–K; vol. 2, L–Z; 1869–1873 in 2 vol.: vol. 1, A–K; vol. 2, L–Z; 1874— published annually.

From 1854 to 1878 published under the title: Repertorium der technischen Literatur. Neue Folge. Im Auftrage des Königlich preussischen Ministeriums für Handel, Gewerbe, und öffentliche Arbeiten . . . ; from 1879 to 1894: Repertorium der technischen Journal-Literatur. Im Auftrage des Kaiserlichen Patentamtes herausgegeben.

Munroe, Charles Edward.**016.662 M92**

- ²²⁸³ Index to the literature of explosives. 2 parts in 1 vol. O. Baltimore 1886–1893.

Sturgis, Russell, & Krehbiel, Henry Edward.**L016.7 S935**

- ⁶⁰³⁹ Annotated bibliography of fine art. Painting, sculpture, architecture, arts of decoration and illustration, by Russell Sturgis. Music, by Henry Edward Krehbiel. Edited by George Iles. [6], 89 p. Q. Boston: published for the American Library Association Publishing Section by the Library Bureau, 1897.

Adams, Charles Kendall.**016.9 A211**

- ³⁰⁴ A manual of historical literature, comprising brief descriptions of the most important histories in English, French, and German, together with practical suggestions as to methods and courses of historical study. . . . Third edition, revised . . . xxxviii, [2], 720 p. O. New York: Harper & Brothers, 1889.

017 CATALOGUES OF LIBRARIES**American Library Association.****017 A5121**

- ¹²²¹ Catalog of "A. L. A." library. 5,000 volumes for a popular library selected by the American Library Association, and shown at the World's Columbian Exposition. xx, 592 p. O. (U. S. A. DEPARTMENT OF THE INTERIOR. BUREAU OF EDUCATION.) Washington 1893.

Boston. Public Library.**L017 B658**

⁷⁵⁹² A list of periodicals, newspapers, transactions, and other serial publications currently received in the principal libraries of Boston and vicinity. [4], 143 p. Q. Boston 1897.

British Museum. Department of Printed Books.**L017 B762**

⁹⁸⁸⁸ A subject index of the modern works added to the library of the British Museum Compiled by G. K. Fortescue. [Vol. 1-3.] 1880-1895. Q. London 1886-1897.

Contents: Vol. 1. 1880-1885; vol. 2. 1886-1890; vol. 3. 1891-1895.

Chicago. Public Library.**017 C43**

⁹⁸⁰³ Finding lists of the Chicago Public Library. Seventh edition. Including the first supplement. [2 vol.] O. Chicago 1889-1895.

Prussia. K. Ministerium der öffentlichen Arbeiten.**017 P955**

⁸⁴¹² Katalog der Bibliothek des Königl. Ministeriums der öffentlichen Arbeiten. xiv, [2], 666 p. O. Berlin: J. Springer, 1897.

020 LIBRARY ECONOMY**Denver, Col. Public Library.****020.2 D19**

⁸⁶⁴ Public library hand-book, Denver. By the Public Library of Denver. [2], 182 p. il. S. Denver: Carson-Harper Co., 1895.
Edited by J. C. Dana.

Dana, John Cotton.**020.2 D191**

¹⁸⁸⁷³ A library primer. 180, [10] p. il. D. Chicago: Library Bureau, 1899.

Fletcher, William Isaac.**020.2 F63**

¹³³ Public libraries in America. Second edition. [2], 169 p. 14 pl. 4 por. D. (Columbian knowledge series, no. 2.) Boston: Roberts Brothers, 1895.

Gräsel, Arnim.**020.2 G761**

¹⁰³³¹ Manuel de bibliothéconomie. Edition française revue par l'auteur et considérablement augmentée. Traduction de Jules Laude. . . . [2], 628 p. il. 4 pl. O. Paris: H. Welter, 1897.

Plummer, Mary Wright.**020.2 P731**

¹³¹³⁸ Hints to small libraries. Second edition revised and enlarged. 67, [1] p. 25 il. O. New York: Truslove & Comba, 1898.

Garnett, Richard.**020.4 G18**

¹⁹⁶⁷⁸ Essays in librarianship and bibliography. xiv,343 p. D. [Library series, vol. 5.] London: G. Allen, 1899.

Contents: Address to the Library Association. Public libraries and their catalogues. The printing of the British Museum catalogue. The past, present, and future of the British Museum catalogue. The British Museum catalogue as the basis of a universal catalogue. Introduction of European printing into the east. Paraguayan and Argentine bibliography. The early Italian book trade. Some book-hunters of the seventeenth century. Librarianship in the seventeenth century. The manufacture of fine paper in England in the eighteenth century. On some colophons of the early printers. On the system of classifying books on the shelves followed at the British Museum. Subject-indexes to transactions of learned societies. Photography in public libraries. The telegraph in the library. On the protection of libraries from fire. The sliding-press at the British Museum. On the provision of additional space in libraries. Preface to Blades' "Enemies of books". Sir Anthony Panizzi, K.C.B. The late John Winter Jones, V. P. S. A. The late Henry Stevens, F. S. A. The late Sir Edward A. Bond, K. C. B.

Wheatley, Henry Benjamin.**020.4 W56**

⁶⁵³⁹ How to form a library. vii,248 p. D. [Book-lover's library.] London: E. Stock, 1886.

Macfarlane, John.**025 M16**

¹⁵⁸²⁵ Library administration. x,244 p. D. [Library series, vol. 3.] London: G. Allen, 1898.

Dewey, Melvil.**025.4 D51**

⁹³⁴ Decimal classification and relative index for libraries, clippings, notes, etc. Fifth edition. 593 p. O. Boston: Library Bureau, 1894.

Greenwood, Thomas.**027.042 2**

¹⁷²³ Public libraries: a history of the movement and a manual for the organization and management of rate-supported libraries. Fourth edition, revised xxxi,604 p. il. D. London: Cassell & Co., 1894.

Koopman, Harry Lyman.**028 K83**

⁵⁷²⁴ The mastery of books. Hints on reading and the use of libraries. 214 p. D. New York: American Book Co., c. 1896.
Contains a chapter: Classified list of books.

Porter, Noah.**028 P83**

¹²⁸²⁴ Books and reading: or, What books shall I read and how shall I read them? viii,378 p. O. New York: C. Scribner & Co., 1871.

Thayer, Joseph Henry.**028.3 T33**

³³⁸ Books and their use: an address; to which is appended a list of books for students of the New Testament. 94 p. O. Boston: Houghton, Mifflin, & Co., 1893.

030 ENCYCLOPEDIAS

031 AMERICAN

New York Tribune.

031 3

- ¹⁷⁷⁷⁴ Tribune almanac and political register Continued from [no. 1]. 1838. D. New York [1854-].

The almanacs for 1838, 1843-1855 are published under the title: The Whig almanac . . . ; for 1839-41: The Politician's register; for 1838-1854 they are photolithographic reproductions with a general title-page reading: The Tribune almanac . . . 1838-1868, . . . comprehending The Politician's register and The Whig almanac Vol. 1.

None published for 1842.

No title-page. Title taken from inside cover.

Wheeler, William Adolphus, & Wheeler, Charles G.

031 0200

- ⁶⁴⁷² Familiar allusions: a hand-book of miscellaneous information, including the names of celebrated statues, paintings, palaces, country-seats, ruins, churches, ships, streets, clubs, natural curiosities, and the like. v, 584 p. O. Boston: J. R. Osgood & Co., 1882.

American cyclopædia.

L031 0300

- ⁴⁴⁶ The American cyclopædia. A popular dictionary of general knowledge. Edited by George Ripley and Charles A. Dana. With supplement. 16 vol. il. pl. maps, facsim. table. Index by T. J. Conant. Q. New York: D. Appleton & Co., 1883-1885.

Appletons' annual cyclopædia.

L031 0301

- ⁷³³ Appletons' annual cyclopædia and register of important events of the years 1876-. . . . New series. Continued from vol. 1. il. pl. por. maps, tables. Q. New York: D. Appleton & Co., 1885-.

Index for vol. 1-9 in vol. 9; for vol. 13-17 in vol. 17. Vol. 1-9 printed in 1885-1886, c. 1877-1885.

Encyclopædia Britannica.

L031 0302

- ²⁴⁹⁴ American supplement to Encyclopædia Britannica. (Ninth edition.) A dictionary of arts, sciences, and general literature. 4 vol. il. pl. maps. Q. Philadelphia: Hubbard Publishing Co., 1894.

Binder's title: Encyclopædia Americana.

Iconographic encyclopædia.

L031 0500

- ⁶⁷² The Iconographic encyclopædia of the arts and sciences. Translated from the German of the Bilder-Atlas (Iconographische Encyclopædie), revised and enlarged by eminent American specialists. Published by special arrangement with the proprietor, F. A. Brockhaus, Leipzig, Germany. 7 vol. pl. maps. Q. Philadelphia: Iconographic Publishing Co., c. 1885-1890.

Daily news almanac.**031 0502**

¹⁰⁵⁷⁰ The Daily news almanac and political register. . . . Continued from vol. 14. 1898. il. D. Chicago, c. 1898—.

Compiled by G. E. Plumbe.

Frey, Albert Romer.**031 0800**

⁹⁹¹ Sobriquets and nicknames. iii,482 p. O. London: Whittaker & Co., [1887].

Century dictionary.**L031 0900**

⁴¹⁸ The Century dictionary. An encyclopedic lexicon of the English language. Prepared under the superintendence of William Dwight Whitney. 6 vol. il. F. New York: Century Co., c. 1889.

Century cyclopedia of names.**L031 0901**

⁴⁶⁰ The Century cyclopedia of names. A pronouncing and etymological dictionary of names in geography, biography, mythology, history, ethnology, art, archæology, fiction, etc., etc., etc. Edited by Benjamin E. Smith. vii,1085 p. F. New York: Century Co., c. 1894.

Reddall, Henry Frederic.**031 0902**

⁸⁷⁵ Fact, fancy, and fable: a new handbook for ready reference on subjects commonly omitted from cyclopædias; . . . 536 p. O. Chicago: A. C. McClurg & Co., 1892.

Thorne, Robert, *compiler*.**031 0903**

¹⁴⁵⁸⁴ Fugitive facts. A dictionary of rare and curious information. A treasury of facts, legends, sayings and their explanation, obtained in large part from sources not generally accessible, . . . 506 p. D. New York: A. L. Burt, c. 1889.

Johnson's universal cyclopædia.**L031 P300**

⁴³² Johnson's universal cyclopædia. A new edition, prepared by a corps of thirty-six editors, assisted by eminent European and American specialists, under the direction of Charles Kendall Adams. 8 vol. il. pl. maps. Q. New York: A. J. Johnson Co., 1895.

Smith, Henry Percy, *editor*.**031 P500**

¹⁷⁷⁵ A dictionary of terms, phrases, and quotations. The terms and phrases edited by the Rev. H. Percy Smith. The quotations compiled for the American edition by Helen Kendrick Johnson. x, 724 p. O. New York: D. Appleton & Co., 1895.

Harper's book of facts.**L031 P501**

- ³⁸³⁰ Harper's book of facts: a classified history of the world, embracing science, literature, and art. Compiled by Joseph H. Willsey, edited by Charlton T. Lewis. [4], 954 p. il. Q. New York: Harper & Brothers, 1895.

World almanac.**031 P600**

- ¹²²³ The World almanac and encyclopedia. 1896. 584 p. il. O. New York: Press Publishing Co., 1896.

Encyclopædia Britannica.**L031 P700**

- ⁷⁹⁰⁰ New American supplement to the latest edition of the Encyclopædia Britannica. A standard work of reference in art, literature, science, history, Edited under the personal supervision of Day Otis Kellogg. 5 vol. paged continuously; vol. 1: 1-642 p.; vol. 2: [6], 643-1308 p.; vol. 3: [6], 1309-1974 p.; vol. 4: [8], 1975-2632 p.; vol. 5: [6], 2633-3269 p. il. Q. New York: Werner Co., 1897.

Chandler, William Henry.**L031 P801**

- ¹⁷³⁴⁶ Chandler's encyclopedia. An epitome of universal knowledge. 3 vol. paged continuously; vol. 1: xiii, 1-520 p.; vol. 2: 521-1104 p.; vol. 3: [2], 1105-1710 p. il. maps. Q. New York: P. F. Collier, 1898.

032 ENGLISH**Statesman's year-book.****032 M400**

- ⁸⁰⁶⁸ The Statesman's year-book: statistical and historical annual of the states of the world Continued from [vol. 1]. 1864. D. London 1864-.

Vol. 1-19 edited by Frederick Martin; vol. 20-, by J. Scott Keltie.
Published with various subtitles.

Whitaker, Joseph, editor.**032. M900**

- ²⁸²² An almanac Containing the usual astronomical and other phenomena. Also a large amount of information respecting the government, finances, population, commerce, and general statistics of the British Empire throughout the world, with some notice of other countries, &c., &c. Continued from [no. 1:] 1869. D. London: J. Whitaker, pref. 1868-.

Encyclopædia Britannica.**L032 N500**

- ³⁰⁹⁹ The Encyclopædia Britannica. A dictionary of arts, sciences, and general literature. Ninth edition. 24 vol. and index. il. pl. maps. sq. Q. Edinburgh: A. & C. Black, 1875-1888.

Adams, William Davenport.**032 N800**

- ⁵⁹¹⁷ Dictionary of English literature: being a comprehensive guide to English authors and their works. Third edition. iv, 708 p. O. London: Cassell, Petter & Galpin, [188-].

Brewer, Ebenezer Cobham.**032 0001**

- ¹⁵⁹ The reader's handbook of allusions, references, plots, and stories. With two appendices. xiii, 1170 p. O. Philadelphia: J. B. Lippincott Co., 1893.

Cox, Sir George William, Bart.**032 0200**

- ¹⁰¹⁵ The little cyclopædia of common things. Tenth edition. [2], 660 p. il. O. London: Swan Sonnenschein & Co., 1894.

Brewer, Ebenezer Cobham.**032 0400**

- ⁸⁸⁷ A dictionary of miracles, imitative, realistic, and dogmatic. xlv, 582 p. il. O. Philadelphia: J. B. Lippincott Co., 1889.

Hazell's annual.**032 0600**

- ³⁸⁸⁷ Hazell's annual A cyclopædic record of men and topics of the day. . . . Continued from [vol. 1]. 1886. maps. D. London 1886-.

Vol. 1-6, 1886-1891, edited by E. D. Price; vol. 10-, by Wm. Palmer.

Vol. 1-3 published under the title: Hazell's annual cyclopædia.

Chambers' encyclopædia.**L032 0800**

- ⁴²⁴ Chambers' encyclopædia. A dictionary of universal knowledge. New edition. 10 vol. il. pl. maps. Q. London: W. & R. Chambers, 1888-1892.

Blackie's modern cyclopedia.**032 0900**

- ¹³⁰⁹ Blackie's modern cyclopedia of universal information. . . . Edited by Charles Annandale. 8 vol. il. maps. O. London: Blackie & Son, 1894.

Brewer, Ebenezer Cobham.**032 P100**

- ¹⁸⁰ The historic note-book: with an appendix of battles. x, 997 p. O. Philadelphia: J. B. Lippincott Co., 1894.

Brewer, Ebenezer Cobham.**032 P200**

- ¹⁵⁹ Dictionary of phrase and fable. Giving the derivation, source, or origin of common phrases, allusions, and words that have a tale to tell. Twenty-sixth edition, revised. . . . To which is added a concise bibliography of English literature, based upon the . . . work . . . of W. Davenport Adams. . . . viii, 1076 p. O. New York: Cassell Publishing Co., [1892].

Walsh, William Shepard.**032 P300**

¹¹⁶³ Handy-book of literary curiosities. 1104 p. O. London: Gibbings & Co., 1894.

Haydn, [Joseph], of Lincoln's Inn.**032 P500**

¹⁴³ Haydn's dictionary of dates and universal information relating to all ages and nations. Twenty-first edition, containing the history of the world to the autumn of 1895. By Benjamin Vincent. vi, [6], 1216 p. O. New York: G. P. Putnam's Sons, 1895.

Baldwin, James.**032 P501**

¹²⁰⁸ A guide to systematic readings in the Encyclopædia Britannica. 316 p. O. Chicago: Werner Co., 1895.

033-039 OTHER ENCYCLOPEDIAS**Brockhaus' Konversations-Lexikon.****L033 P200**

⁶³⁹ Brockhaus' Konversations-Lexikon. Vierzehnte vollständig neu bearbeitete Auflage. 17 vol. il. pl. maps, tables. Q. Leipzig: F. A. Brockhaus, 1892-1898.

Vol. 17 is Supplement and also called Revidierte Jubiläums-Ausgabe.

Meyers Hand-Lexikon.**033 P300**

¹³⁵⁹ Meyers Hand-Lexikon des allgemeinen Wissens. Fünfte, gänzlich umgearbeitete Auflage. [2], 1702, [2] p. D. Leipzig: Bibliographisches Institut, 1893.

Larousse, Pierre.**L034 M500**

¹¹⁹⁷ Grand dictionnaire universel du xix^e siècle français, historique, géographique, biographique, mythologique, bibliographique, littéraire, artistique, scientifique, etc. . . . 17 vol. il. 1 por. sq.F. Paris [1864-1876].

Vol. 1-2, 4-6, 8-14, published under the title: Grand dictionnaire universel français, . . .

Vol. 16 and 17 are supplements to the main work.

Grande encyclopédie.**L034 O500**

¹¹⁹⁸ La Grande encyclopédie. Inventaire raisonné des sciences, des lettres et des arts, par une société de savants et de gens des lettres . . . Continued from vol. 1. il. maps. F. Paris: vol. 1-22, H. Lamirault & c^{ie}, vol. 23-, Société anonyme de La Grande encyclopédie, [1885-].

Vol. 1-18, general editor: F. Camille Dreyfus; vol. 23-, André Berthelot.

Nordisk familjebok.**Lo38 N600**

¹⁷⁸⁴⁶ Nordisk familjebok. Konversationslexikon och realencyklopedi, innehållande upplysningar och förklaringar om märkvärdiga namn, föremål och begrepp. . . . Vol. 1-. il. Q. Stockholm 1876-.

A-Elzheimer, edited by N. Linder; Em-Hemman, by B. F. Olsson, J. Rosén and Th. Westrin; Hemmanskyfning-Öynhausen, by J. Rosén and Th. Westrin, with the exception of the letter S which was edited by B. Meijer; vol. 19-, by Th. Westrin.

Vol. 19- are supplements.

040 GENERAL ESSAYS**Caird, John.****042 C12**

¹⁸¹⁰⁸ University addresses: being addresses on subjects of academic study delivered to the University of Glasgow. [Edited by Edward Caird.] x,383 p. O. Glasgow: J. MacLehose & Son, 1898.

Contents: The unity of the sciences. The progressiveness of the sciences. Erasmus. Galileo. The scientific character of Bacon. David Hume. Bishop Butler and his theology. The study of history. The science of history. The study of art. The progressiveness of art. The art of public speaking. The personal element in teaching. General and professional education.

050 JOURNALISM**Dana, Charles Anderson.****050.4 D19**

¹²³⁸⁸ The art of newspaper making. Three lectures. [4],114 p. D. New York: D. Appleton & Co., 1897.

Hudson, Frederic.**050.9 N200**

⁶ Journalism in the United States, from 1690 to 1872. [4],789 p. O. New York: Harper & Brothers, 1873.

Jackson, Mason.**050.9 O500**

¹⁰³² The pictorial press, its origin and progress. xii,363 p. 150 il. O. London: Hurst & Blackett, 1885.

Bourne, Henry Richard Fox.**050.9 O700**

⁶³⁷⁸ English newspapers. Chapters in the history of journalism. 2 vol. O. London: Chatto & Windus, 1887.

Pendleton, John.**050.9 P001**

⁶⁴⁸⁸ Newspaper reporting in olden time and to-day. x,245 p. D. [Book-lover's library.] London: E. Stock, 1890.

060 SCIENTIFIC SOCIETIES

Becker, Bernard Henry.

062 4

¹⁸⁴¹⁵ Scientific London. viii,340 p. D. New York: D. Appleton & Co., 1875.

090 BOOK RARITIES

Slater, John Herbert.

090.2 P200

⁶²⁵⁸ Book collecting. A guide for amateurs. [2],130 p. il. D. London: Swan Sonnenschein & Co., 1892.

Madan, Falconer.

091 P300

²⁸⁵³ Books in manuscript: a short introduction to their study and use. With a chapter on records. xv,188 p. il. 8 pl. 1 facsim. O. [Books about books.] London: Kegan Paul, ... & Co., 1893.

With an appendix: List of printed catalogues of manuscripts in European languages in the British Museum, the Bodleian Library at Oxford, the Cambridge University Library, etc.

Pollard, Alfred William.

096 P300

¹³⁵ Early illustrated books. A history of the decoration and illustration of books in the 15th and 16th centuries. xvi,256 p. 58 il. 1 facsim. O. [Books about books.] London: Kegan Paul, Trench, Trübner & Co., 1893.

Hardy, William J.

097 P300

²³⁴⁰ Book-plates. xvi,175 p. il. 34 pl. 3 por. O. [Books about books.] London: Kegan Paul, ... & Co., 1893.

Castle, Egerton.

097 P301

²³³⁴ English book-plates, ancient and modern. [New and enlarged edition.] xx,352 p. il. 13 pl. 1 por. D. [Ex-libris series.] London: G. Bell & Sons, 1894.

Vinycomb, John.

097 P400

⁶²³³ On the processes for the production of ex libris (book-plates). . . . xii,96 p. il. 22 pl. D. London: A. & C. Black, 1894.

Reprinted from the *Journal of the Ex Libris Society* with additional illustrations.

Allen, Charles Dexter.

097 P401

⁷³⁷⁹ American book-plates. A guide to their study, with examples. With a bibliography by Eben Newell Hewins. xiv,437 p. il. 31 pl. D. New York: Macmillan & Co., 1894.

Hamilton, Walter.

097 P600

⁵⁵⁷⁸ French book-plates. x,360 p. il. 1 pl. D. [Ex-libris series.] London: G. Bell & Sons, 1896.

Contains a bibliography of works referring to French ex-libris.

100-200 PHILOSOPHY AND RELIGION**100-120 GENERAL WORKS AND METAPHYSICS****Ladd, George Trumbull.****102 P001**

¹⁵⁷⁵ Introduction to philosophy. An inquiry after a rational system of scientific principles in their relation to ultimate reality. xii, 426 p. O. New York: C. Scribner's Sons, 1890.

Külpe, Oswald.**102 P500**

⁹⁵⁸⁹ Introduction to philosophy. A handbook for students of psychology, logic, ethics, æsthetics, and general philosophy. Translated from the German (1895) by W. B. Pillsbury and E. B. Titchener. x,256 p. D. London: Swan Sonnenschein & Co., 1897.

Hyde, William DeWitt.**104 H99**

¹³⁰⁹⁷ Practical idealism. xi,335 p. D. New York: Macmillan Co., 1897.

Contents: Part 1. The natural world. 1. The world of sense-perception. 2. The world of association. 3. The world of science. 4. The world of art. Part 2. The spiritual world. 5. The world of persons. 6. The world of institutions. 7. The world of morality. 8. The world of religion.

Schwegler, Albert.**109 K700**

³⁵⁴⁶ Handbook of the history of philosophy. Translated and annotated by James Hutchison Stirling. Seventh edition. . . . xviii, [2],486 p. D. Edinburgh: Edmonston & Co., 1879.

Ueberweg, Friedrich.**109 N100**

⁵⁷⁴⁵ History of philosophy, from Thales to the present time. Translated from the fourth German edition, by George S. Morris. With additions by Noah Porter. With a preface by the editors of the Philosophical and theological library. 2 vol. O. [Philosophical and theological library.] New York: C. Scribner's Sons, 1887, c. 1871-1873.

Vol. 2 contains an appendix on English and American philosophy, by Noah Porter, and an appendix on Italian philosophy, by Vincenzo Botta.

Windelband, Wilhelm.**109 P100**

⁷²⁷¹ A history of philosophy. With especial reference to the formation and development of its problems and conceptions. Authorised translation by James H. Tufts. xiii,659 p. O. New York: Macmillan & Co., 1893.

Burt, Benjamin Chapman.**109 P200**

¹⁸¹ A history of modern philosophy (from the Renaissance to the present). 2 vol. O. Chicago: McClurg & Co., 1892.

Weber, Alfred.**109 P600**

- ⁴¹⁰⁸ History of philosophy. Authorized translation by Frank Thilly. From the fifth French edition. xi,630 p. O. New York: C. Scribner's Sons, 1896.

Contains a bibliography of philosophy and numerous bibliographical notes and references.

Pearson, Karl.**110.2 P200**

- ⁶⁴³⁷ The grammar of science. xvi,493 p. 25 il. D. [Contemporary science series.] London: W. Scott, 1892.

With bibliographical references at the end of each chapter.

Bradley, Francis Herbert.**110.2 P300**

- ³³⁹² Appearance and reality: a metaphysical essay. xxiv,558 p. O. [Library of philosophy.] London: Swan Sonnenschein & Co., 1893.

Locke, John.**121 E2**

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¹⁰⁸⁶ The science of language. Founded on lectures delivered at the Royal Institution in 1861 and 1863. 2 vol. D. London: Longmans, Green, & Co., 1891.

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¹⁰⁸⁴ Introduction to the science of language. Third edition. 2 vol. D. London: Kegan Paul, ... , & Co., 1890.

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¹⁰⁸⁶ Principles of the history of language. Translated from the second edition of the original by H. A. Strong. New and revised edition (1890). xlviii, 511 p. O. London: Longmans, Green, & Co., 1891.

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¹⁰³⁹ Introduction to the study of the history of language. x, [2], 435 p. O. London: Longmans, Green, & Co., 1891.

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¹⁰¹¹ Grundriss der romanischen Philologie. Vol. 1-. pl. maps. Q. Strassburg: K. J. Trübner, 1888-.

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414 S974

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vii, 467 p. D. Boston: Houghton, Mifflin & Co., c. 1870.

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- ²¹⁶⁰ The Stanford dictionary of anglicised words and phrases. Edited
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Murray, James Augustus Henry, *editor*.

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¹²⁰⁶ The imperial dictionary of the English language: a complete encyclopedic lexicon, literary, scientific, and technological. New edition, ... revised and ... augmented. Edited by Charles Anandale. 4 vol. il. Q. London: Blackie & Son, [1882-1883].

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L423 S885

³⁴⁵⁷ A dictionary of the English language, pronouncing, etymological, and explanatory, embracing scientific and other terms, numerous familiar terms, and a copious selection of old English words. The pronunciation revised by the Rev. P. H. Phelp, with supplement by William Bayne. New edition. xvi,1288 p. Q. Edinburgh: W. Blackwood & Sons, 1895.

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¹⁷⁹⁷⁹ Webster's academic dictionary. A dictionary of the English language, giving the derivations, pronunciations, definitions and synonyms of a large vocabulary of the words in common use, with an appendix containing various useful tables. Abridged from Webster's international dictionary. xxxii,704 p. il. O. New York: American Book Co., c. 1895.

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²⁴⁶⁶ A dictionary of archaic and provincial words, obsolete phrases,
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424 C84

²³²⁸ English synonyms explained in alphabetical order, with copious
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424 R63

²⁰⁴¹ Thesaurus of English words and phrases, classified and arranged
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⁸⁵²⁸ A dictionary of English synonymes, and synonymous or parallel
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¹⁷⁸⁵ How to parse. An attempt to apply the principles of scholar-
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1892.

Carpenter, George Rice.**425 C22**

¹¹⁹⁶⁵ Principles of English grammar. For the use of schools. x,254 p. D. New York: Macmillan Co., 1898.

Mätzner, [Eduard].**425 M26**

⁶⁶¹⁶ An English grammar: methodical, analytical, and historical. With a treatise on the orthography, prosody, inflections and syntax of the English tongue; Translated from the German, . . . , by Clair James Grece. 3 vol. O. London: J. Murray, 1874.

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²⁰⁶⁶ A new English grammar, logical and historical. Part I. Introduction, phonology, and accidence. xxiv,499 p. D. (Clarendon Press series.) Oxford: Clarendon Press, 1892.

Whitney, William Dwight.**425 W61**

¹⁷⁶⁶ Essentials of English grammar. . . . xi,260,16 p. D. Boston: Ginn & Co., 1889, c. 1877.

Morris, Richard.**425.1 M83**

⁶¹¹⁰ Historical outlines of English accidence, comprising chapters on the history and development of the language, and on word-formation. Revised by L. Kellner, with the assistance of Henry Bradley. xiii,[3],463 p. D. London: Macmillan & Co., 1895.

Wright, Joseph.**L427 W93**

¹³⁶⁶⁷ The English dialect dictionary, being the complete vocabulary of all dialect words still in use, or known to have been in use during the last two hundred years. Founded on the publications of the English Dialect Society and on a large amount of material never before printed. Vol. 1-. sq.F. London: H. Frowde, 1898-.

Bartlett, John Russell.**427.95 B28**

¹⁷⁶² Dictionary of Americanisms: a glossary of words and phrases usually regarded as peculiar to the United States. Fourth edition, . . . improved and enlarged. xlvi,[2],813 p. O. Boston: Little, Brown, & Co., 1896, c. 1877.

[Osmun, Thomas Embly.]**428.3 083**

⁷⁷¹⁰ The verbalist. A manual devoted to brief discussions of the right and the wrong use of words and to some other matters of interest to those who would speak and write with propriety. By Alfred Ayres. New and revised edition, much enlarged. vi,337 p. S. New York: D. Appleton & Co., 1896.

Alfred Ayres is pseudonym of Thomas Embly Osmun.

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Heyne, Moriz.**L433 H51**

¹¹⁹¹ Deutsches Wörterbuch. 3 vol. Q. Leipzig: S. Hirzel, 1890-1895.

Kluge, Friedrich.**433 K71**

¹¹⁴¹ Etymologisches Wörterbuch der deutschen Sprache. Fünfte verbesserte Auflage. xxvi, 491 p. Q. Strassburg: K. J. Trübner, 1894.

Flügel, Felix.**L433.2 F67**

²²²⁷ Allgemeines englisch-deutsches und deutsch-englisches Wörterbuch. Zweiter ... vermehrter Abdruck der vierten ... Auflage von Dr. J. G. Flügel's Vollständigem Wörterbuch der englischen und deutschen Sprache. 2 vol. in 3. Q. Braunschweig: G. Westermann, 1894.

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⁹⁷⁸¹ Encyklopädisches englisch-deutsches und deutsch-englisches Wörterbuch. Ein Parallelwerk zu Sachs-Villatte's französisch-deutschem und deutsch-französischem Wörterbuche. Mit Angabe der Aussprache nach dem phonetischen System der Methode Toussaint-Langenscheidt. ... Grosse Ausgabe. Vol. 1-. Q. Berlin: Langenscheidtsche Verlagsbuchhandlung, 1891-.

Schmidt, Immanuel, & Tanger, G.**L433.2 S3511**

⁶⁶⁴⁶ Flügel - Schmidt - Tanger, A dictionary of the English and German languages for home and school. With special reference to Dr. Felix Flügel's Universal English-German and German-English dictionary. Second edition. 2 vol. Q. New-York: Lemcke & Buechner, 1897.

Eberhard, Johann August.**434 E16**

⁵³⁰⁵ Johann August Eberhards synonymisches Handwörterbuch der deutschen Sprache. Fünfzehnte Auflage. Nach der von Friedrich Rückert besorgten 12. Ausgabe durchgängig umgearbeitet, vermehrt und verbessert von Dr. Otto Lyon. Mit Übersetzung der Wörter in die englische, französische, italienische und russische Sprache ... [2], xlv, 1011 p. O. Leipzig: T. Grieben, 1896.

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²⁰³² A short historical grammar of the German language, translated and adapted from Professor Behaghel's "Deutsche Sprache", by Emil Trechmann. viii, 194 p. D. London: Macmillan & Co., 1891.

Whitney, William Dwight.**435 W61**

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Björkman, C. G.**439.732 B55**

³¹⁰⁷ Svensk-engelsk ordbok. . . . [6], 1360 p. O. Stockholm: P. A. Norstedt & Söner, c. 1889.

Wenström, Edmund, & Lindgren, Erik.**439.732 W52**

³⁰⁰⁰ Engelsk-svensk ordbog. . . . [6], 1758 p. O. Stockholm: P. A. Norstedt & Söner, 1889.

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²³²⁰ Dansk-norsk-engelsk Ordbog. Anden forögede og omarbejdede Udgave. viii, 695 p. O. Kjöbenhavn: Gyldendalske Boghandel, 1888.

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¹⁴⁷¹⁶ Norwegian grammar and reader. With notes and vocabulary. x, 330 p. O. Chicago: Scott, Foresman & Co., 1898.

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³¹¹¹ Dictionnaire de la langue française. Supplément renfermant un grand nombre de termes d'art, de science, d'agriculture, etc. . . . suivi d'un dictionnaire étymologique de tous les mots d'origine orientale, par Marcel Devic. [2], iv, 375, [2], vii, 84 p. sq. F. Paris: Hachette & C^{ie}, 1882.

Scheler, Auguste.**L443 S322**

²⁴²² Dictionnaire d'étymologie française d'après les résultats de la science moderne. Troisième édition revue et augmentée. x, [2], 526, [2] p. Q. Bruxelles: T. Falk, 1888.

Brachet, Auguste.**443.2 B72**

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²²²⁹ Deshumbert's dictionary of difficulties met with in reading, writing, translating, and speaking French. Fifth edition. vii, [1], 132 p. D. London: D. Nutt, 1894.

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²⁰⁰² Dictionnaire international français-anglais. . . . Nouvelle édition. . . . [6], 903 p. Q. Paris: A. Fouraut, 1896.

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²⁰⁰³ The international English and French dictionary. . . . New edition. . . . [6], 798 p. Q. Paris: A. Fouraut, 1896.

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¹⁴⁶⁸⁶ Dictionnaire général anglais-français [et français-anglais]. Nouvellement rédigé d'après Johnson, Webster, Richardson, etc., les dictionnaires français de l'Académie, de Laveaux, de Boiste, de Bescherelle, etc., Vingt-huitième édition. [2 vol.] O. Paris: Baudry, 1882.

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²¹⁸² Dictionnaire des synonymes de la langue française: avec une introduction sur la théorie des synonymes. . . . Sixième édition, suivie d'un supplément. [4], lxxxiii, 1106, iv, 336 p. O. Paris: Hachette & C^{ie}, 1893.

Brachet, Auguste.**445 B72**

²⁰⁶² A historical grammar of the French language, from the French of Auguste Brachet. Rewritten and enlarged by Paget Toynbee. xxii, [2], 339 p. D. Oxford: Clarendon Press, 1896.

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¹³⁹⁵¹ French conversation-grammar. Revised by Ferdinand Bôcher. With full vocabularies, by L. Pylodet. Third American edition. (The Bôcher-Otto French course.) 489 p. D. New York: H. Holt & Co., c. 1884.

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⁴⁶⁹ A new dictionary of the Italian and English languages, based upon that of Baretti, and containing, ... ; a copious list of geographical and proper names, both ancient and modern. 2 vol. O. New York: D. Appleton & Co., 1855.

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¹⁸⁰⁶³ Italian grammar. Third edition, revised and enlarged. vii, 132 p. D. (Heath's modern language series.) Boston, U. S. A.: D. C. Heath & Co., 1898, c. 1887.

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²²⁹¹ A pronouncing dictionary of the Spanish and English languages: composed from the Spanish dictionaries of the Spanish Academy, Terreros, and Salvá. Upon the basis of Seoane's edition of Neuman and Baretti. 2 vol. Q. London: Hirschfeld Bros., 1893, c. 1852.

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Edgren, August Hjalmar.**465 E23**

¹⁵³⁷³ A brief Spanish grammar. With historical introductions and exercises. vii, 123 p. D. Boston, U. S. A.: D. C. Heath & Co., 1898, c. 1891.

Knapp, William Ireland.**465 K72**

¹⁷⁵⁷ A grammar of the modern Spanish language as now written and spoken in the capital of Spain. Second edition, ... revised by the author. x, 488 p. D. Boston: Ginn & Co., 1896, c. 1882.

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¹³¹⁴ A Latin dictionary founded on Andrews' edition of Freund's Latin dictionary revised, enlarged and in great part rewritten. xiv, 2019 p. Q. Oxford: Clarendon Press, 1896.

Smith, Sir William, L. L. D., & Hall, Theophilus D.**473.2 S664**

¹⁴³²² A copious and critical English-Latin dictionary. Fifth edition. xi, [1], 963, [1] p. O. London: J. Murray, 1888.

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²⁰¹¹ Allen and Greenough's Latin grammar, . . . , founded on comparative grammar. Revised and enlarged by James Bradstreet Greenough, assisted by George L. Kittredge. xii,488 p. D. Boston, U. S. A.: Ginn & Co., 1895, c. 1888.

Lane, George Martin. 475 L24

¹⁷⁷²⁴ A Latin grammar for schools and colleges. [Completed by Morris H. Morgan.] xiv,[2],571,[1] p. O. New York: Harper & Brothers, 1898.

Liddell, Henry George, & Scott, Robert. L483.2 L61

¹³¹² A Greek-English lexicon. Seventh edition, revised and augmented xvi,1776 p. F. Oxford: Clarendon Press, 1890.

Goodwin, William Watson. 485 G63

²⁰¹³ A Greek grammar. Revised and enlarged. xxxvi,[1],451 p. D. Boston: Ginn & Co., 1895.

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⁶⁵² The realm of nature. An outline of physiography. xiii, 366 p. 68 il. 19 maps. D. [University extension manuals.] New York: C. Scribner's Sons, 1892.

Rossiter, William.**503 O800**

¹⁸⁰ An illustrated dictionary of scientific terms. 350, [2] p. il. D. New York: G. P. Putnam's Sons, pref. 1878.

Clifford, William Kingdon.**504 C61**

²¹⁸² Lectures and essays. Edited by Leslie Stephen and Frederick Pollock, with an introduction by F. Pollock. 2 vol. il. por. O. London: Macmillan & Co., 1879.

Contents: Vol. 1. Introduction: Biographical. Selection from letters, etc. Bibliographical. — On some of the conditions of mental development. On theories of the physical forces. On the aims and instruments of scientific thought. Atoms. The first and last catastrophe. The unseen universe. The philosophy of the pure sciences. Vol. 2. Instruments used in measurement. Body and mind. On the nature of things-in-themselves. On the types of compound statement involving four classes. On the scientific basis of morals. Right and wrong: the scientific ground of their distinction. The ethics of belief. The ethics of religion. The influence upon morality of a decline in religious belief. Cosmic emotion. Virchow on the teaching of science.

[Kelvin], William Thomson, [1st Baron].**504 K29**

¹⁸²⁸⁰ Popular lectures and addresses by Sir William Thomson. . . . 3 vol. il. pl. D. (Nature series.) London: Macmillan & Co., 1891-1894.

Contents: Vol. 1. Constitution of matter. Vol. 2. Geology and general physics. Vol. 3. Navigational affairs.

Vol. 1 is in second edition, with additions and corrections.

Dyer, Henry.**507 P300**

⁵³⁰² Science teaching in schools: an address. [6], 128 p. D. London: Blackie & Son, 1893.

With appendixes.

Marmery, J. Villin.**509 P500**

¹⁵⁷⁸⁷ Progress of science. Its origin, course, promoters, and results. With an introduction by Samuel Laing. xxxi, 358 p. O. London: Chapman & Hall, 1895.

Youmans, William Jay, editor. 509.2 Y8

⁶¹³⁵ *Pioneers of science in America. Sketches of their lives and scientific work. . . .* viii,508 p. 5 il. 49 por. O. New York: D. Appleton & Co., 1896.

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⁶⁶⁴ *The life of Sir Isaac Newton. A new edition. Revised and edited by W. T. Lunn.* xii,346 p. il. 1 por. D. London: W. Tegg & Co., 1875.

510 MATHEMATICS

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¹⁹³⁹⁶ *A synopsis of elementary results in pure mathematics: containing propositions, formulae, and methods of analysis, with abridged demonstrations. Supplemented by an index to the papers on pure mathematics which are to be found in the principal journals and transactions of learned societies, both English and foreign of the present century.* xxxvi,[2],935 p. il. 20 pl. Q. London: F. Hodgson, 1886.

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⁶⁹⁷³ *Higher mathematics. A text-book for classical and engineering colleges. First edition. . . .* xi,576 p. il. O. New York: J. Wiley & Sons, 1896.

Contents: 1. Merriman, M. The solution of equations. 2. Weld, L. G. Determinants. 3. Halsted, G. B. Projective geometry. 4. McMahon, J. Projected geometry. 5. Byerly, W. E. Harmonic functions. 6. Fiske, T. S. Functions of a commonplace variable. 7. Johnson, W. W. Differential equations. 8. Hyde, E. W. Grassmann's space analysis. 9. Macfarlane, A. Vector analysis and quaternions. 10. Woodward, R. S. Probability and theory of errors. 11. Smith, D. E. History of modern mathematics.

Davies, Charles, & Peck, William G. 510.3 L500

⁶⁶² *Mathematical dictionary and cyclopedia of mathematical science. . . .* 592 p. il. O. New York: A. S. Barnes & Co., c. 1883.

McLellan, James Alexander, & Dewey, John. 510.7 P500

⁹⁰⁹⁶ *The psychology of number and its applications to methods of teaching arithmetic.* xiv,[2],309 p. D. (International education series, vol. 33.) New York: D. Appleton & Co., 1897.

Ball, Walter William Rouse. 510.79 P200

¹²²⁸³ *Mathematical recreations and problems of past and present times.* xii,240 p. il. D. London: Macmillan & Co., 1892.

- Vega, Georg von.** 510.8 2
⁵⁹⁶¹ Georg's Freiherrn von Vega logarithmisch-trigonometrisches Handbuch. Neue vollständig durchgesehene und erweiterte Stereotyp-Ausgabe. Bearbeitet von Dr. C. Bremiker. . . . xxviii, 575 p. O. Berlin: Weidmannsche Buchhandlung, 1895.
- Newcomb, Simon.** 510.8 3
⁶⁹⁷⁶ Logarithmic and other mathematical tables, with examples of their use and hints on the art of computation. [4], ii, 80, [2], 104 p. O. (Newcomb's mathematical course.) New York: H. Holt & Co., c. 1882.
- Ball, Walter William Rouse.** 510.9 P301
⁷⁷⁰⁸ A short account of the history of mathematics. Second edition. xxiv, 520 p. il. D. London: Macmillan & Co., 1893.
- Wentworth, George Albert, & Hill, Thomas.** 511 O100
⁷⁷⁸⁶ A high school arithmetic. (Wentworth & Hill's practical arithmetic). . . . xv, [1], 362 p. il. D. Boston, U. S. A.: Ginn & Co., 1890, c. 1881.
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⁸⁰³⁸ The public school arithmetic. Based on McLellan and Dewey's "Psychology of number." x, 346 p. il. D. New York: Macmillan Co., 1897.
- Todhunter, Isaac.** 512 N001
¹⁰³⁸⁵ Algebra for the use of colleges and schools. . . . New edition. x, 608 p. D. London: Macmillan & Co., 1897.
 ——— Key [4], 244 p. D. London: Macmillan & Co., 1894.
- Todhunter, Isaac.** 512 P700
⁷⁸⁴⁷ Algebra for beginners. With numerous examples. New edition, revised and enlarged by S. L. Loney. viii, 428, xxxvi p. D. London: Macmillan & Co., 1897.
- Todhunter, Isaac.** 512.82 O001
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¹⁷⁶⁸⁸ Earth sculpture; or, The origin of land-forms. xvi,320 p. 89 il. 2 pl. O. [Progressive science series.] London: J. Murray, 1898.

Berghaus, Hermann. L551.46 P100

¹³¹⁴⁹ Atlas der Hydrographie. 5 p. 11 maps. F⁴. (Berghaus' physikalischer Atlas. [Dritte Ausgabe.] Abteilung 2.) ... Gotha: J. Perthes, 1891.

Russell, Israel Cook. 551.48 P500

²⁸⁷ Lakes of North America. A reading lesson for students of geography and geology. x,[2],125 p. 9 il. 13 pl. 10 maps. O. Boston: Ginn & Co., 1895.

Russell, Israel Cook. 551.48 P801

¹⁸²⁹⁴ Rivers of North America. A reading lesson for students of geography and geology. xix,327 p. 23 il. 11 pl. 6 maps, 1 table. O. [Science series, vol. 3.] New York: G. P. Putnam's Sons, 1898.

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Abercromby, Ralph, *F.R. Met. S.* **551.5 O700**

⁹⁰³ Weather. A popular exposition of the nature of weather changes from day to day. xix,472 p. 96 il. D. (International scientific series, vol. 58.) New York: D. Appleton & Co., 1887.

Hann, Julius. **L551.5 O704**

¹⁹⁷⁸⁹ Atlas der Meteorologie. 12 p. 12 maps. F⁴. (BERGHAUS' PHYSIKALISCHER ATLAS. [Dritte Ausgabe.] Abteilung 3.) Gotha: J. Perthes, 1887.

Waldo, Frank. **551.5 P401**

¹⁰⁹⁰⁴ Modern meteorology: an outline of the growth and present condition of some of its phases. xxiii,460 p. il. 1 map, 2 tables. D. [Contemporary science series, vol. 21.] London: W. Scott, 1894.

Davis, William Morris. **551.5 P402**

¹¹⁰⁴¹ Elementary meteorology. xi,[1],355 p. 106 il. 6 maps. O. Boston, U. S. A.: Ginn & Co., 1894.

Russell, Thomas. **551.5 P403**

¹⁷⁰⁸¹ Meteorology, weather, and methods of forecasting, description of meteorological instruments and river flood predictions in the United States. xxiii,277 p. il. 1 pl. 45 maps. O. New York: Macmillan & Co., 1895.

Archibald, [Edmund] Douglas. **551.5 P700**

⁷⁸⁶⁴ The story of the earth's atmosphere. 194 p. 43 il. 1 pl. S. [Library of useful stories.] New York: D. Appleton & Co., 1897.

Croll, James. **551.56 O600**

⁶⁷³⁶ Discussions on climate and cosmology. xii,327 p. 1 map. O. New York: D. Appleton & Co., 1886.

551.7-551.9 STRATIGRAPHICAL AND STRUCTURAL GEOLOGY

Geikie, James. **551.79 P500**

⁶⁷⁶³ The great ice age and its relation to the antiquity of man. Third edition, largely rewritten. xxviii,850 p. 78 il. 1 pl. 18 maps. O. New York: D. Appleton & Co., 1895.

Darwin, Charles. **551.96 O900**

⁶⁷³² The structure and distribution of coral reefs. Third edition, with an appendix by Prof. T. G. Bonney. xv,344 p. il. 3 maps. O. New York: D. Appleton & Co., 1889.

The appendix is entitled: Summary of the principal contributions to the history of coral reefs since the year 1874.

552 PETROGRAPHY

Merrill, George Perkins.**552 P700**

⁸⁹⁰⁸ A treatise on rocks, rock-weathering and soils. xx,411 p. 42 il. 25 pl. O. New York: Macmillan Co., 1897.

553 ECONOMIC GEOLOGY

Tarr, Ralph Stockman.**553 P300**

⁸⁸⁸² Economic geology of the United States, with briefer mention of foreign mineral products. [Second edition.] xx,[2],525 p. 27 il. 2 pl. 2 tables. O. New York: Macmillan & Co., 1895.

Phillips, John Arthur.**553.1 P600**

⁴⁸⁴⁸ A treatise on ore deposits. Second edition, rewritten and greatly enlarged by Henry Louis. xxii,[2],943 p. 128 il. O. London: Macmillan & Co., 1896.

Thorpe, [Thomas Edward], *editor*.**553.2 N800**

¹²¹²⁵ Coal: its history and uses. By Professors Green, Miall, Thorpe, Rücker, and Marshall. xii,363 p. il. O. London: Macmillan & Co., 1878.

Contents: 1-2. The geology of coal. 3. Coal plants. 4. Animals of the coal measures. 5-6. The chemistry of coal. 7. Coal as a source of warmth. 8. Coal as a source of power. 9-10. The coal question.

Martin, Edward Alfred.**553.2 P600**

⁸³⁸³ The story of a piece of coal. What it is, whence it comes, and whither it goes. 168 p. 38 il. 1 pl. S. [Library of useful stories.] New York: D. Appleton & Co., 1896.

Nicolls, William Jasper.**553.23 P700**

¹²²⁰⁵ The story of American coals. 405 p. 1 pl. O. Philadelphia: J. B. Lippincott Co., 1897.

Davies, David Christopher.**553.6 P200**

¹³⁷¹⁸ A treatise on earthy and other minerals and mining. By D. C. Davies. Third edition, thoroughly revised and enlarged by his son E. Henry Davies. xviii,394 p. 76 il. D. London: C. Lockwood & Son, 1892.

557 GEOLOGY OF NORTH AMERICA

Miller, Samuel Almond.**L557 O900**

¹⁸⁹⁸ North American geology and palæontology. . . . 664 p. 1194 il.
Q. Cincinnati, Ohio, 1889.

560 PALEONTOLOGY

Williams, Henry Shaler.**560.2 P500**

¹⁸⁹⁷⁴ Geological biology. An introduction to the geological history
of organisms. xix,395 p. 120 il. O. New York: H. Holt & Co.,
1895.

Woods, Henry.**562 P600**

¹³⁰⁵⁵ Elementary palæontology. Invertebrate. Second edition. xiii,
296 p. 112 il. D. [Cambridge natural science manuals.] Cam-
bridge: University Press, 1896.
"List of palæontological works", p. 272-285.

Hutchinson, Henry Neville.**566 P300**

⁶⁸⁰⁹ Extinct monsters. A popular account of some of the larger
forms of ancient animal life. With illustrations by J. Smit and
others. . . . [Second edition.] xxii,270 p. 59 il. 26 pl. O.
New York: D. Appleton & Co., pref. 1893.

Hutchinson, Henry Neville.**566 P400**

²¹¹ Creatures of other days. xxiv,270 p. 79 il. 22 pl. 2 por. O.
New York: D. Appleton & Co., 1894.

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570.1-570.9 GENERAL WORKS

Letourneau, Charles. 570.2 N600

⁴⁴⁹⁸ Biology. Translated from the French. New edition. xi,480 p. 83 il. O. London: Chapman & Hall, 1890.

McAlpine, Daniel, & McAlpine, A. N. L570.2 O001

³⁶²⁹ Biological atlas: a guide to the practical study of plants and animals. . . . With accompanying text containing arrangement and explanation, equivalent terms, glossary and classification. ix,49 p. 24 pl. sq. F. Edinburgh: W. & A. K. Johnston, 1881.

Sedgwick, William Thompson, & Wilson, Edmund B. 570.2 O600

¹⁶³⁹ General biology. Part I. Introductory. vii,193 p. 89 il. O. (American science series.) New York: H. Holt & Co., 1889.

Parker, Thomas Jeffery. 570.2 P700

⁸⁹²¹ Lessons in elementary biology. [Third edition.] xxiii,503 p. 127 il. D. [Macmillan's manuals for students.] London: Macmillan & Co., 1897.

Spencer, Herbert. 570.2 P800

¹⁷⁷⁰² The principles of biology. Revised and enlarged edition. 2 vol. il. O. New York: D. Appleton & Co., 1898.
Vol. 2 is reprinted from first edition, c. 1867.

Naturalists' directory. 570.3 2

¹³⁰⁹⁰ The Naturalists' directory. Containing the names, addresses, special departments of study, etc., of professional and amateur naturalists, chemists, physicists, astronomers, etc., etc., of the United States and Canada. . . . [1877]. Continued from 1898. D. Boston 1877-.

Edited by Samuel E. Cassino.

Vol. for 1877 has slight variations in the title; published in Salem, Mass.

Stormonth, James. 570.3 N900

¹⁰¹⁴ A manual of scientific terms: pronouncing, etymological, and explanatory; chiefly comprising terms in botany, natural history, anatomy, medicine, and veterinary science: with an appendix of specific names. . . . Second edition. xi,488 p. D. Edinburgh: J. Thin, 1894.

Allen, Grant. 570.4 A425

¹⁷⁶⁸³ Flashlights on nature. With 150 illustrations by Frederick Enock. viii,312 p. il. D. London: G. Newnes, 1899.

Gibson, William Hamilton.

L570.4 G352

¹⁰⁰⁹⁵ Strolls by starlight and sunshine. 194 p. il. 1 pl. Q. New York: Harper & Brothers, 1891.

Gibson, William Hamilton.

570.4 G353

¹²⁸²³ My studio neighbors. x,245 p. il. 1 pl. O. New York: Harper & Brothers, 1898.

Torrey, Bradford.

570.4 T63

¹⁶⁷⁰⁸ A world of green hills. Observations of nature and human nature in the Blue Ridge. [4],285 p. D. Boston: Houghton, Mifflin & Co., 1898.

Wallace, Alfred Russel.

570.4 W16

³⁸⁷ Tropical nature and other essays. xiii,[2],356 p. il. O. London: Macmillan & Co., 1878.

Contents: 1. The climate and physical aspects of the equatorial zone. 2. Equatorial vegetation. 3. Animal life in the tropical forests. 4. Humming-birds: as illustrating the luxuriance of tropical nature. 5. The colours of animals and sexual selection. 6. The colours of plants and the origin of the colour-sense. 7. By-paths in the domain of biology. 8. The distribution of animals as indicating geographical changes.

Buckley, Arabella Burton, [*afterwards* Fisher].

570.9 0800

⁶³⁴⁰ A short history of natural science and of the progress of discovery from the time of the Greeks to the present day. . . . Fifth edition. xxix,509 p. 74 il. 1 table. D. London: E. Stanford, 1894.

Darwin, Charles.

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³¹ Journal of researches into the natural history and geology of the countries visited during the voyage of H. M. S. Beagle round the world, under the command of Capt. Fitz Roy. New edition. x, 519 p. O. New York: D. Appleton & Co., 1878.

Thomson, Sir Charles Wyville.

570.91 N600

⁴⁶ The voyage of the "Challenger." The Atlantic. A preliminary account of the general results of the exploring voyage of H. M. S. "Challenger" during the year 1873 and the early part of the year 1876. 2 vol. il. pl. por. maps, tables. O. New York: Harper & Brothers, 1878.

Moseley, Henry Nottidge.

570.91 N604

³⁷⁰² Notes by a naturalist on the "Challenger", being an account of various observations made during the voyage of H. M. S. "Challenger" round the world, in the years 1872-1876, xvi,620 p. il. 2 pl. 1 map. O. London: Macmillan & Co., 1879.

Agassiz, Alexander.**L570.91 O001**

- ⁴⁵⁷ A contribution to American thalassography. Three cruises of the United States Coast and Geodetic Survey steamer "Blake" in the Gulf of Mexico, in the Caribbean Sea, and along the Atlantic coast of the United States, from 1877 to 1880. 2 vol. il. pl. maps, tables. Q. Boston: Houghton, Mifflin & Co., 1888.

Belt, Thomas.**570.9728 N300**

- ³⁶⁹⁹ The naturalist in Nicaragua. A narrative of a residence at the gold mines of Chontales; journeys in the savannahs and forests; with observations on animals and plants in reference to the theory of evolution of living forms. Second edition. . . . xxxii, 403 p. il. 4 pl. 1 por. 1 map. D. London: E. Bumpus, 1888.

Muir, John.**570.9794 P400**

- ¹⁴²²⁶ The mountains of California. xiii, [2], 381 p. il. 1 pl. D. New York: Century Co., 1898.

Rodway, James.**570.988 P500**

- ¹⁰⁹²² In the Guiana forest. Studies of nature in relation to the struggle for life. With introduction by Grant Allen. Second edition. xxiii, 242 p. 16 pl. D. London: T. Fisher Unwin, 1895.

Forbes, Henry O.**570.991 O300**

- ¹⁸⁹¹ A naturalist's wanderings in the Eastern archipelago. A narrative of travel and exploration from 1878 to 1883. xix, [1], 536 p. 65 il. 22 pl. 6 maps. O. New York: Harper & Brothers, 1885.

571-573 ANTHROPOLOGY AND ETHNOLOGY**Lubbock, Sir John.****571.02 M900**

- ⁶⁷⁵⁴ Pre-historic times, as illustrated by ancient remains, and the manners and customs of modern savages. Fifth edition. xxvii, [1], 637 p. 228 il. 3 pl. 1 map. O. London: Williams & Norgate, 1890.

Clodd, Edward.**571.02 P500.**

- ⁷⁸¹⁰ The story of "primitive" man. 190 p. 88 il. 1 pl. S. (Library of useful stories.) New York: D. Appleton & Co., 1895.

Starr, Frederick.**571.02 P502**

- ¹⁶²¹⁵ Some first steps in human progress. 305 p. 33 il. 1 pl. D. (Chautauqua Reading Circle literature.) Meadville, Penna.: Flood & Vincent, 1895.

Hutchinson, Henry Neville.

571.02 P600

⁷⁹⁸² Prehistoric man and beast. xxii,298 p. 10 pl. O. New York: D. Appleton & Co., 1897.

Haddon, Alfred Cort.

571.04 H12

¹⁶⁷⁵⁶ The study of man. xxv,410 p. 40 il. 8 pl. O. [Science series.] New York: G. P. Putnam's Sons, 1898.

Contents: 1. Measurements and their importance in anthropology. 2. Hair and eye colour. 3. Value of head-form in anthropology. 4. The nose. 5. The ethnography of the Dordogne district. 6. The evolution of the cart. 7. The origin of the Irish jaunting car. 8. Toys and games: cat's cradle and kites. 9. Toys and games: tops and the tug-of-war. 10. The bull-roarer. 11. The singing games of children. 12. "London Bridge": foundation sacrifice. 13. "Draw a pail of water": water worship. 14. Courting games. 15. Funeral games. 16. Practical suggestions for conducting ethnographical investigations in the British Islands.

Windle, Bertram Coghill Alan.

571.0942 P700

⁸⁴⁰⁸ Life in early Britain. Being an account of the early inhabitants of this island and the memorials which they have left behind them. xv,244 p. 67 il. 1 map. D. New York: G. P. Putnam's Sons, 1897.

Munro, Robert.

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³¹⁵⁹ Rambles and studies in Bosnia-Herzegovina and Dalmatia. With an account of the proceedings of the Congress of Archæologists and Anthropologists held in Sarajevo, August, 1894. xx,395 p. 144 il. 32 pl. O. Edinburgh: W. Blackwood & Sons, 1895.

Worsaae, Jens Jacob Asmussen.

571.0948 0001

¹²³⁷⁶ The pre-history of the North, based on contemporary memorials. Translated, with a brief memoir of the author, by H. F. Morland Simpson. xxx,206 p. 19 il. 1 map. D. London: Trübner & Co., 1886.

Worsaae, Jens Jacob Asmussen.

571.0948 0200

¹²⁴⁶² The industrial arts of Denmark from the earliest times to the Danish conquest of England. 2 parts in 1. il. map. D. [SOUTH KENSINGTON MUSEUM. Art handbooks.] London: Chapman & Hall, 1882.

Nadaillac, [Jean François Albert du Pouget,]

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¹⁹⁵ *Marquis de.*

Pre-historic America. Translated by N. d'Anvers. Edited by W. H. Dall. [ix],566 p. 219 il. O. New York: G. P. Putnam's Sons, 1884.

Haddon, Arthur Cort.**571.7 P500**

- ¹³⁰⁸² Evolution in art: as illustrated by the life-histories of designs. xviii,[2],364 p. il. D. [Contemporary science series, vol. 30.] London: W. Scott, 1895.

Contents: Introduction. The decorative art of British New Guinea: as an example of the method of study. The material of which patterns are made. The reasons for which objects are decorated. The scientific method of studying decorative art.

Grosse, Ernst.**571.7 P700**

- ⁷⁶³⁹ The beginnings of art. xiv,327 p. 32 il. 3 pl. D. [Anthropological series.] New York: D. Appleton & Co., 1897, pref. 1893.

Peschel, Oscar.**572.02 N400**

- ¹⁸⁹ The races of man, and their geographical distribution. From the German. xiv,[2],528 p. il. O. New York: D. Appleton & Co., 1876.

Quatrefages [de Bréau], Armand de.**572.02 N700**

- ⁹⁴⁶⁵ The human species. x,498 p. D. (International scientific series, vol. 27.) New York: D. Appleton & Co., 1895.

Taylor, Isaac.**572.02 O900**

- ⁴¹⁸⁸ The origin of the Aryans. An account of the prehistoric ethnology and civilisation of Europe. xi,339 p. 30 il. D. [Contemporary science series.] London: W. Scott, pref. 1889.

Contents: 1. The Aryan controversy. 2. The prehistoric races of Europe. 3. The neolithic culture. 4. The Aryan race. 5. The evolution of Aryan speech. 6. The Aryan mythology.

Gerland, Georg [Karl Cornelius].**L572.02 P200**

- ⁴¹⁴¹ Atlas der Völkerkunde. 15 p. 15 maps. F⁴. (BERGHAUS' PHYSIKALISCHER ATLAS. [Dritte Ausgabe.] Abteilung 7.) Gotha: J. Perthes, 1892.

Ratzel, Friedrich.**L572.02 P400**

- ⁷⁹⁰⁷ The history of mankind. Translated from the second German edition by A. J. Butler. With an introduction by E. B. Tylor. 3 vol. il. pl. maps. Q. London: Macmillan & Co., 1896-1898.

Keane, Augustus Henry.**572.02 P600**

- ⁸⁵⁹¹ Ethnology. In two parts: I. Fundamental ethnical problems. II. The primary ethnical groups. Second edition revised. xxx, 442 p. il. O. [Cambridge geographical series.] Cambridge: University Press, 1896.

Ripley, William Zebina.**572.94 P900**

¹⁹⁰⁸⁹ The races of Europe. A sociological study. Accompanied by a supplementary bibliography of the anthropology and ethnology of Europe, published by the Public Library of the City of Boston. [2 vol.] il. pl. of por. maps. O. (Lowell Institute lectures.) New York: D. Appleton & Co., 1899.

[Vol. 2] is the bibliography, and has also been published separately under the title: A selected bibliography of the anthropology and ethnology of Europe; this has shelf number **016.572 R48**

"Special list of authorities on acclimatization", [vol. 1], p. 589-590.

Short, John Thomas.**572.97 N900**

¹⁰¹² The North Americans of antiquity. Their origin, migrations, and type of civilization considered. 544 p. il. O. New York: Harper & Brothers, 1880.

Brinton, Daniel Garrison.**572.97 P100**

³⁵⁷² The American race: a linguistic classification and ethnographic description of the native tribes of North and South America. 392 p. O. New York: N. D. C. Hodges, 1891.

Im Thurn, Everard Ferdinand.**572.988 0300**

¹⁹⁶¹⁹ Among the Indians of Guiana. Being sketches chiefly anthropologic from the interior of British Guiana. xvi, 445 p. 43 il. 10 pl. 1 map. O. London: Kegan Paul, Trench, & Co., 1883.

Tylor, Edward Burnett.**573.02 0100**

⁶³²⁶ Anthropology. An introduction to the study of man and civilization. xv, 448 p. 78 il. D. (International scientific series, vol. 62.) New York: D. Appleton & Co., 1896, pref. 1881.

Shaler, Nathaniel Southgate.**573.4 P100**

⁴²⁹⁷ Nature and man in America. xiv, 290 p. D. New York: C. Scribner's Sons, 1891.

575 EVOLUTION**Haeckel, Ernst.****575 N900**

⁴⁶³ The evolution of man: a popular exposition of the principal points of human ontogeny and phylogeny. From the German. 2 vol. il. pl. O. New York: D. Appleton & Co., 1886.

Wilson, Andrew, F. R. S. E.**575 0200**

¹⁵³⁴ Chapters on evolution. xv, 383 p. 259 il. D. New York: G. P. Putnam's Sons, 1883.

Eimer, Gustav Heinrich Theodor.**575 O801**

⁹¹⁷⁷ Organic evolution as the result of the inheritance of acquired characters according to the laws of organic growth. Translated by J. T. Cunningham. xxviii, 435 p. 6 il. O. London: Macmillan & Co., 1890.

Haeckel, Ernst.**575 O901**

¹³⁶²⁴ The history of creation; or, The development of the earth and its inhabitants by the action of natural causes. A popular exposition of the doctrine of evolution in general, and of that of Darwin, Goethe, and Lamarck in particular. From the eighth German edition. The translation revised by E. Ray Lankester. Fourth edition. 2 vol. il. pl. map. O. London: Kegan Paul, ... & Co., 1892.

Brooklyn Ethical Association.**575 P101**

⁸⁶⁹⁹ Evolution in science, philosophy, and art. Popular lectures and discussions before the Brooklyn Ethical Association. ix, 475 p. 6 il. 3 por. O. New York: D. Appleton & Co., 1891.

"Collateral readings recommended", at the beginning of each paper.

Weismann, August.**575 P102**

¹¹²²⁶ Essays upon heredity and kindred biological problems. Edited by Edward B. Poulton, Selmar Schönland, and Arthur E. Shipley. Authorised translation.—Second edition. 2 vol. il. D. Oxford: Clarendon Press, 1891–1892.

Vol. 2 is in first edition.

Contents: Vol. 1. 1. The duration of life, 1881. 2. On heredity, 1883. 3. Life and death, 1883. 4. The continuity of the germ-plasm as the foundation of a theory of heredity, 1885. 5. The significance of sexual reproduction in the theory of natural selection, 1886. 6. On the number of polar bodies and their significance in heredity, 1887. 7. On the supposed botanical proofs of the transmission of acquired characters, 1888. 8. The supposed transmission of mutilations, 1888. Vol. 2. 9. Retrogressive development in nature, 1886. 10. Thoughts upon the musical sense in animals and man, 1889. 11. Remarks on certain problems of the day, 1890. 12. Amphimixis or the essential meaning of conjugation and sexual reproduction, 1891.

Romanes, George John.**575 P201**

¹¹³¹⁴ Darwin, and after Darwin. An exposition of the Darwinian theory and a discussion of post-Darwinian questions. ... 3 vol. il. pl. por. facsim. O. Chicago: Open Court Publishing Co., 1892–1897.

Contents: Vol. 1. The Darwinian theory. Vol. 2. Post-Darwinian questions. Heredity and utility. Vol. 3. Post-Darwinian questions. Isolation and physiological selection. Vol. 2 and 3 edited by C. Lloyd Morgan.

Clodd, Edward.**575 P401**

²²¹⁷ A primer of evolution. viii, 186 p. il. 1 pl. S. New York: Longmans, Green, & Co., 1895.

Jordan, David Starr.**575 P800**

¹⁰⁶²² Foot-notes to evolution. A series of popular addresses on the evolution of life. With supplementary essays by Edwin Grant Conklin, Frank Mace McFarland, James Perrin Smith. xviii, 392 p. il. 6 pl. D. New York: D. Appleton & Co., 1898.

Contents: 1. The kinship of life. 2. Evolution: what it is and what it is not. 3. The elements of organic evolution. 4. Conklin, E. G. The factors of evolution from the standpoint of embryology. 5. The heredity of Richard Roe. 6. McFarland, F. M. The physical basis of heredity. 7. The distribution of species. 8. Latitude and vertebræ. 9. Smith, J. P. Evolution of fossil cephalopoda. 10. The evolution of the mind. 11. Degeneration. 12. Hereditary inefficiency. 13. The woman of evolution and the woman of pessimism. 14. The stability of truth. 15. The struggle for realities.

Weismann, August.**575.1 N500**

⁴⁸² Studies in the theory of descent. With notes and additions by the author. Translated and edited, with notes, by Raphael Meldola. With a prefatory notice by Charles Darwin. 2 vol. paged continuously; vol. 1: xxxvi, 1-400 p.; vol. 2: 401-729 p.; pl. O. London: Sampson Low, ... & Rivington, 1882.

Contents: On the seasonal dimorphism of butterflies. — On the final causes of transformation: 1. The origin of the markings of caterpillars. 2. On phyletic parallelism in metamorphic species. 3. The transformation of the Mexican axolotl into amblystoma. 4. On the mechanical conception of nature.

Romanes, George John.**575.1 O600**

¹⁰²¹⁰ An examination of Weismannism. ix, 221 p. 1 por. O. Chicago: Open Court Publishing Co., 1893.

Contents: 1. Statement of Weismann's system up to the year 1886. 2. Later additions to Weismann's system up to the year 1892. 3. Weismann's Theory of heredity (1891). 4. Examination of Weismann's Theory of evolution. 5. Weismannism up to date (1893). Appendix 1. On germ-plasm. 2. On teleonomy.

Galton, Francis.**575.1 O900**

⁹⁴¹³ Natural inheritance. ix, [2], 259 p. 16 il. O. London: Macmillan & Co., 1889.

Weismann, August.**575.1 P201**

¹²²⁹⁶ The germ-plasm: a theory of heredity. Translated by W. Newton Parker, and Harriet Rönnfeldt. xxii, [2], 477 p. 24 il. D. [Contemporary science series, vol. 22.] London: W. Scott, 1893.

Darwin, Charles.**575.2 N600**

¹⁵ The variation of animals and plants under domestication. Second edition, revised. ... 2 vol. il. O. New York: D. Appleton & Co., 1876.

Contains a chapter: The provisional hypothesis of pangenesis.

- Wallace, Alfred Russel.** 575.4 N100
³⁹² Contributions to the theory of natural selection. A series of essays. Second edition, with corrections. . . . xvi, 384 p. D. London: Macmillan & Co., 1871.
- Wallace, Alfred Russel.** 575.4 O900
¹⁵⁵⁷ Darwinism. An exposition of the theory of natural selection, with some of its applications. xvi, 494 p. 37 il. 1 por. 1 map. D. London: Macmillan & Co., 1889.
- Darwin, Charles.** 575.5 N400
¹⁶¹ The descent of man, and selection in relation to sex. Second edition, revised xvi, 688 p. 78 il. D. London: J. Murray, 1874.

576 ORIGINS AND BEGINNINGS OF LIFE

- Hertwig, Oscar.** 576.3 P200
¹²⁸⁴⁹ The cell. Outlines of general anatomy and physiology. Translated by M. Campbell, and edited by Henry Johnstone Campbell. xvi, 368 p. 168 il. O. London: Swan Sonnenschein & Co., 1895.
 "Literature," at the end of each chapter.
- Wilson, Edmund Beecher.** 576.3 P600
⁶⁶³² The cell in development and inheritance. xvi, 371 p. 142 il. O. (COLUMBIA UNIVERSITY. Biological series, vol. 4.) New York: Macmillan Co., 1896.
 With bibliographical references at the end of each chapter.

578 MICROSCOPY

- Stokes, Alfred Cheatham.** 578.02 P400
¹⁹⁰⁷⁹ Microscopical praxis: or, Simple methods of ascertaining the properties of various microscopical accessories. xv, 244 p. il. 1 pl. D. Portland, Conn.: E. F. Bigelow, 1894.
- Griffith, John William, & Henfrey, Arthur.** 578.03 O300
¹²⁸⁹¹ The micrographic dictionary; a guide to the examination and investigation of the structure and nature of microscopic objects. Fourth edition. Edited by J. W. Griffith, assisted by the Rev. M. J. Berkeley, and T. Rupert Jones. 2 vol. in 1. il. pl. O. London: J. Van Voorst, 1883.
 Vol. 1, text; vol. 2, plates.

Zimmermann, Albrecht.**578.8 P300**

- ¹⁸⁰⁹³ Botanical microtechnique. A hand-book of methods for the preparation, staining, and microscopical investigation of vegetable structures. Translated from the German by James Ellis Humphrey. xii, 296 p. 63 il. O. New York: H. Holt & Co., 1893.
"Literature", p. 265-283.

Lee, Arthur Bolles.**578.9 P601**

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- ¹⁸¹⁰ Tenants of an old farm; leaves from the note-book of a naturalist. [Second edition.] [6],iii,460 p. 140 il. D. New York: Fords, Howard, & Hulbert, 1885.

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Hofmann, Ernst.**595.76 P700**

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¹⁰⁹¹⁴ The butterflies of the eastern United States. For the use of classes in zoology and private students. New and revised edition. 414 p. 93 il. D. Philadelphia: J. B. Lippincott Co., 1896, c. 1885.

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⁷⁸⁸⁴ Citizen Bird. Scenes from bird-life in plain English for beginners. With . . . illustrations by Louis Agassiz Fuertes. xiv, 430 p. il. 1 pl. D. New York: Macmillan Co., 1897.

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¹⁸⁸⁹⁴ Birds of the United States east of the Rocky Mountains. A manual for the identification of species in hand or in the bush. 415 p. il. D. New York: American Book Co., c. 1898.

Flower, Sir William Henry, & Lydekker, Richard.

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¹⁴¹¹⁵ An introduction to the study of mammals, living and extinct. xvi, 763 p. 357 il. O. London: A. & C. Black, 1891.

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Van Cleve, B. Frank.**602 P001**

¹⁸⁸⁷¹ The English and American mechanic: an every-day hand-book for the workshop and the factory. Containing several thousand receipts, rules and tables A new, revised, enlarged and improved edition edited by Emory Edwards. xxv, 476 p. il. D. Philadelphia: H. C. Baird & Co., 1893.

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¹³⁷²⁵ Workshop receipts. Continued from [first series]. il. D. London 1892-.

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[First series] is in second edition, revised, published in 1895 under the title: Workshop receipts for the use of manufacturers, mechanics and scientific amateurs.

Knight, Edward Henry.**L603 N201**

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Colange, Leo de.**L603 0001**

⁵³⁸¹ The American encyclopedia of commerce, manufactures, commercial law, and finance: 2 vol. paged continuously; vol. 1: vii, 1-622 p.; vol. 2: [2], 623-1141 p. 502 il. Q. Boston: Estes & Lauriat; vol. 1.: pref. 1881, vol. 2: c. 1880.

Lock, Charles G. Warnford, *editor*. L603 O200

¹³³¹ Spons' encyclopædia of the industrial arts, manufactures, and raw commercial products. 2 vol. paged continuously; vol 1: viii, 1088 p.; vol. 2: 1089-2142 p. il. Q. London: E. & F. N. Spon, 1882.

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¹³⁴³ Technologisches Wörterbuch: deutsch-englisch-französisch. . . . Vierte verbesserte und . . . vermehrte Auflage. 3 vol. O. Wiesbaden: J. F. Bergmann, 1887-1891.

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Hopkins, Albert Allis, *editor*. 603 P200

¹⁴⁷ The Scientific American cyclopedia of receipts, notes and queries. [4], 708 p. il. O. New York: Munn & Co., 1895.

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³⁴⁴¹ Appleton's cyclopædia of applied mechanics. Revised . . . edition. A dictionary of mechanical engineering and the mechanical arts. Edited by Park Benjamin. With a supplementary volume (Modern mechanism). 2 vol. and suppl. il. pl. Q. New York: D. Appleton & Co., 1893.

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³⁰²² Cooley's cyclopædia of practical receipts and collateral information in the arts, manufactures, professions, and trades, Designed as a . . . supplement to the pharmacopœia and general book of reference Seventh edition, revised and greatly enlarged by W. North. 2 vol. paged continuously; vol. 1: x, [2], 1-896 p.; vol. 2: [2], 897-1827 p. il. Q. London: J. & A. Churchill, 1892.

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⁵⁶⁰⁷ Otto Luegers Lexikon der gesamten Technik und ihrer Hilfswissenschaften. . . . 7 vol. il. Q. Stuttgart: Deutsche Verlags-Anstalt, pref. 1894-[1899].

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Knight, George H.**608.73 P300**

¹⁹⁴¹⁸ Patent-Office manual, including the law and practice of cases in the United States Patent Office and the courts holding a revisory relation thereto. Also, an appendix of copyright decisions, etc. [8], 655 p. O. Boston: Little, Brown & Co., 1893.

Beckmann, Johann.**609 K600**

⁸⁹⁸ A history of inventions, discoveries, and origins. Translated from the German, by William Johnston. Fourth edition, ... revised and enlarged by William Francis and J. W. Griffith. 2 vol. por. D. [Bohn's standard library.] London: H. G. Bohn, 1846.

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¹⁹⁸⁰² Technical, industrial, and trade education. The technical history of commerce; or, The progress of the useful arts. ... Third edition, revised and much enlarged. xxviii, 527 p. 1 map in pocket. D. London: G. Philip & Son, [1887?]

Cochrane, Robert, *editor*.**609 P700**

⁶⁷⁴⁹ The romance of industry and invention. 295 p. il. 1 pl. D. Philadelphia: J. B. Lippincott Co., 1897.

Mason, Otis Tufton.**609.1 P500**

¹¹¹⁴⁷ The origins of invention: a study of industry among primitive peoples. 419 p. il. 9 pl. D. [Contemporary science series, vol. 28.] London: W. Scott, 1895.

Jones, Evan Rowland.**609.2 J71**

¹⁷²⁶⁰ Heroes of industry. Biographical sketches. 324 p. 16 por. D. London: Sampson Low, ... & Rivington, 1886.

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¹²⁸²³ Medical and surgical register of the United States and Canada. Comprising list of physicians and surgeons, ... , the various medical societies, medical colleges, hospitals, ... and other medical institutions, boards of health, ... , a synopsis of the laws ... relating to the profession, medical journals, ... , official list of officers of the medical departments of the U. S. army, navy and marine hospital service, Fifth revised edition. 2502 p. O. Detroit 1898.

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¹⁸⁸⁶⁷ A household dictionary of medicine, preventive and curative. Second edition. [4],379 p. 69 il. O. London: Swan Sonnenschein & Co., 1895.

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⁵⁴⁸² The human body. An account of its structure and activities and the conditions of its healthy working. Seventh edition, revised. xvi,685 p. 192 il. O. (American science series, advanced course.) New York: H. Holt & Co., 1896.

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⁵⁰⁷² A text book of physiology. Revised and abridged from the author's text book of physiology in five volumes. With an appendix on, The chemical basis of the animal body, by A. Sheridan Lea. xlix,1351 p. 234 il. O. New York: Macmillan Co., 1896.

Donaldson, Henry Herbert.

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¹⁰²³⁶ The growth of the brain: a study of the nervous system in relation to education. 374 p. 77 il. D. [Contemporary science series.] London: W. Scott, 1897.

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Handbuch.

L613.02 P300

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- ¹¹⁰⁹⁴ Geschichtliche Entwicklung und Organisation der öffentlichen Gesundheitspflege in den Kulturstaaen. 1893. (*In* Handbuch der Hygiene, vol. 1. p. [4], 1-30. Jena 1896.)

Blyth, Alexander Wynter.

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- ¹²⁷³⁰ A dictionary of hygiene and public health, comprising sanitary chemistry, engineering, and legislation, the dietetic value of foods, and the detection of adulterations, on the plan of the "Dictionnaire d'hygiène publique" of Professor Ambroise Tardieu. xi, [1], 672 p. 140 il. 2 maps. O. London: C. Griffin & Co., 1876.

Stevenson, Thomas, M. D.,

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- ¹⁹¹²⁹ The hygiene, diseases and mortality of occupations. xx, 568 p. O. London: Percival & Co., 1892.

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¹⁰⁹⁸⁵ Ten lectures on alcohol. [2], 374 p. D. New York: National Temperance Society & Publication House, [1883].

Sykes, John Frederick Joseph.

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¹⁷⁶⁶¹ Public health problems. xii, 370 p. il. 1 map. D. [Contemporary science series, vol. 20.] London: W. Scott, 1892.

Notter, James Lane, & Firth, R. H.

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⁶⁵⁵⁷ The theory and practice of hygiene. xv, [1], 1034 p. 135 il. 10 pl. O. London: J. & A. Churchill, 1896.

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London. International Health Exhibition, 1884.

614.06 I

¹⁶⁹⁸⁷ [Handbooks. 6 vol.] il. pl. maps, tables. O. [London 1884.]

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¹²⁴²⁷ A manual of instruction in the principles of prompt aid to the injured. Including a chapter on hygiene and the drill regulations for the hospital corps, U. S. A. Designed for military and civil use. Second edition, revised and enlarged. xvi, 304 p. 167 il. 2 pl. D. New York: D. Appleton & Co., 1898.

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¹¹⁷⁰⁸ The pharmacopœia of the United States of America. Seventh decennial revision (1890). By authority of the National Convention for Revising the Pharmacopœia held at Washington, A. D. 1890. Official from January 1st, 1894. Published by the Committee of Revision. lix, 602 p. O. Philadelphia: P. Blakiston, Son & Co., 1893.

Wood, George Bacon, & Bache, Franklin.

L615.12 P400

¹¹⁸⁹³ The dispensatory of the United States of America. Seventeenth edition. Thoroughly revised and largely rewritten. By H. C. Wood, Joseph P. Remington, and Samuel P. Sadtler. xlv, 1930 p. il. Q. Philadelphia: J. B. Lippincott Co., 1898.

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615.13 P300

¹⁶¹⁴⁶ The Era formulary. 5000 formulas for druggists. A collection of original and prize formulas, to which has been added a selection of formulas from standard authorities in the English, French and German, for application in pharmacy, in the household and the industries; ... First edition. ... Compiled and edited by the Pharmaceutical era. viii, 462 p. O. New York: D. O. Haynes & Co., c. 1893.

Griffiths, T. M.

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¹⁵⁰⁹⁰ Non-secret formulas. A collection of ... formulas and ... prize prescriptions for the use of physicians and druggists, to which has been added a selection of ... original formulas for toilet articles, perfumery and articles of household use, ... First edition. v, 513 p. O. St. Louis 1897.

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¹⁸⁹²⁰ A handbook of medical climatology. Embodying its principles and therapeutic application with scientific data of the chief health resorts of the world. 470 p. il. 11 maps. O. Philadelphia: Lea Brothers & Co., 1897.

617 DENTISTRY

Polk & Co., R. L., publishers.

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¹⁴¹²⁷ R. L. Polk & Co.'s dental register of the United States and Canada. Comprising list of dentists arranged by states and provinces, giving postoffice address with population and location, date and college of graduation. The various dental societies, dental colleges, a synopsis of the laws of registration, and other laws relating to the profession ... Dental journals with names of editors, frequency of publication and subscription rates, and an index ... arranged alphabetically. ... 1898-99. Third edition. 976 p. O. Detroit, c. 1898.

620 ENGINEERING

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Lanza, Gaetano.**620.1 P001**

²⁰⁴⁰⁴ Applied mechanics. Seventh edition, revised. . . . viii,929 p. 310 il. O. New York: J. Wiley & Sons, 1899, c. 1885.

Handbuch.**L620.2 O300**

¹¹⁸⁰⁴ Handbuch der Ingenieurwissenschaften. . . . Zweite vermehrte Auflage. Vol. 1-. il. pl. maps, tables. Q. Leipzig: W. Engelmann, 1885-.

Vol. 1 published in 1887.

Various editions.

Sonne, Eduard, editor.**L620.2 O300**

⁷⁹⁹⁷ Vorarbeiten, Erd-, Strassen-, Grund- und Tunnelbau, sowie Konstruktion der Stütz- und Futtermauern. Dritte Abteilung: Erd-rutschungen. Tunnelbau. Bearbeitet von E. Mackensen, Gustav Meyer und R. Richard. Zweite vermehrte Auflage. xvi,428,vi p. 129 il. 23 pl. Q. (Handbuch der Ingenieurwissenschaften, vol. 1.) Leipzig: W. Engelmann, 1887.

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Rankine, William John Macquorn.**620.2 P700**

¹⁴⁵⁸¹ A manual of civil engineering. Twentieth edition, thoroughly revised. By W. J. Millar. xvi,818 p. il. O. London: C. Griffin & Co., 1898.

Byrne, Oliver, & Spon, Ernest, editors.**L620.3 N400**

¹³¹⁵ Spons' dictionary of engineering, civil, mechanical, military, and naval: with technical terms in French, German, Italian, and Spanish. 3 vol. il. tables. Q. New York: E. & F. N. Spon, 1874.

Harcourt, Leveson Francis Vernon-**620.9 P100**

²⁰⁵ Achievements in engineering during the last half century. Second edition. vi,[2],311 p. 10 il. 12 pl. 1 por. O. New York: C. Scribner's Sons, 1892.

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Barber, Thomas Walter.**621.004 P700**

⁹²⁸⁹ The engineer's sketch-book of mechanical movements, devices, appliances, contrivances, and details employed in the design and construction of machinery for every purpose, classified & arranged for reference for the use of ... all engaged in the mechanical arts. Third edition, considerably enlarged. 335 p. 2603 il. O. London: E. & F. N. Spon, 1897.

Peabody, Cecil Hobart.**621.01 P800**

¹⁸⁰⁷¹ Thermodynamics of the steam-engine and other heat engines. Fourth edition, rewritten ... v,522 p. 97 il. O. New York: J. Wiley & Sons, 1898.

Weisbach, Julius.**621.02 N500**

¹³⁵⁷⁶ Lehrbuch der Ingenieur- und Maschinen-Mechanik. Mit den nöthigen Hülfslehren aus der Analysis für den Unterricht an technischen Lehranstalten sowie zum Gebrauche für Techniker bearbeitet. Fünfte verbesserte und vervollständigte Auflage bearbeitet von Gustav Hermann. ... Vol. 1-. il. pl. O. Braunschweig: F. Vieweg & Sohn, 1876-.

Vol. 1 published in 1896 as a reprint of the edition of 1875. Vol. 3 is in second edition, revised and enlarged.

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¹⁸⁹³² The elements of machine design. ... Sixteenth impression, (revised and enlarged in 1890). 2 vol. il. D. [Text-books of science.] London: Longmans, Green, & Co., 1897-1898.

Contents: Vol. 1. General principles, fastenings, and transmissive machinery. Vol. 2. Chiefly on engine details.

Vol. 2, published in 1897, is in fourteenth edition, revised and enlarged, 1891.

Carpenter, Rolla Clinton.**621.02 P200**

¹²⁵⁸² A text-book of experimental engineering. For engineers and for students in engineering laboratories. xx,709 p. 250 il. 2 pl. O. New York: J. Wiley & Sons, 1892.

The present work is a third edition of "Notes to mechanical laboratory practice," published in 1890.

Rankine, William John Macquorn.**621.02 P300**

¹¹¹³⁴ A manual of machinery and millwork. Seventh edition, thoroughly revised, by W. J. Millar. xvi,601 p. il. O. London: C. Griffin & Co., 1893.

Horner, Joseph G.

621.02 P301

¹¹²⁶⁸ The principles of fitting. For apprentices, and students in technical schools. By a foreman pattern maker. And including a number of useful shop notes and memoranda. x,313 p. il. 5 pl. D. [Whittaker's library of arts, sciences & industries.] London: Whittaker & Co., [1893].

Barber, Thomas Walter.

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¹²⁶⁸⁹ The repair and maintenance of machinery. A handbook of practical notes and memoranda for engineers and machinery users. x,466 p. 417 il. O. London: E. & F. N. Spon, 1895.

Jamieson, Andrew.

621.02 P602

¹⁴⁸⁷³ A text-book of applied mechanics. Specially arranged for the use of Science and Art, City and Guilds of London Institute, and other engineering students. Second edition. 2 vol. il. pl. table. O. [Griffin's scientific text-books.] London: C. Griffin & Co., 1896-1897.

Rankine, William John Macquorn.

621.02 P702

¹¹²⁴⁵ A manual of the steam engine and other prime movers. Fourteenth edition, revised. By W. J. Millar. xxxii,638 p. il. 2 pl. 1 table. D. London: C. Griffin & Co., 1897.

Hiscox, Gardner Dexter.

621.02 P901

¹⁶⁵²³ Mechanical movements. Powers, devices and appliances used in constructive and operative machinery and the mechanical arts. For the use of inventors, ... and all others interested in any way in mechanics. [4],402 p. 1649 il. O. New York: Munn & Co., 1899.

Clark, Daniel Kinnear.

L621.1 P001

⁴²⁸¹ The steam engine: a treatise on steam engines and boilers. 2 vol. in 4. il. pl. tables. Q. London: Blackie & Son, 1890.

Rose, Joshua.

L621.1 P303

¹⁸¹³⁶ Modern steam engines: an elementary treatise upon the steam engine, written in plain language, for use in the workshop as well as in the drawing office. Giving full explanations of the construction of modern steam engines; including diagrams showing their actual operation; together with complete but simple explanations of the operations of various kinds of valves, valve motions, and link motions, etc. New edition, revised and improved. 357 p. il. 1 pl. sq. F. Philadelphia: H. C. Baird & Co., 1897.

Jamieson, Andrew.

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¹¹²⁶⁴ A text-book on steam and steam engines. Specially arranged for the Science and Art, City and Guilds of London Institute, and other engineering students. Twelfth edition. xiv,468 p. il. 7 pl. D. [Griffin's scientific text-books.] London: C. Griffin & Co., 1897.

Stretton, Clement E.

621.13 P604

¹⁷⁶⁸³ The locomotive engine and its development. A popular treatise on the gradual improvements made in railway engines between 1803 and 1896. Fifth edition, revised and enlarged. xii,252 p. il. 9 pl. 1 por. 2 tables. D. [Weale's scientific & technical series.] London: C. Lockwood & Son, 1896.

Thurston, Robert Henry.

621.18 O701

⁴⁸⁶⁷ Steam boiler explosions, in theory and in practice. Second edition. viii,174 p. 63 il. D. New York: J. Wiley & Sons, 1888.

Peabody, Cecil Hobart, & Miller, Edward F.

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Bodmer, G. R.

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Blaine, Robert Gordon.

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⁸¹⁵⁷ Hydraulic machinery. With an introduction to hydraulics. vii, 383 p. il. 7 pl. 1 por. O. [Finsbury technical manuals.] London: E. & F. N. Spon, 1897.

Wood, De Volson.

621.24 P600

¹¹⁵⁹⁸ Turbines, theoretical and practical, with numerical examples and experimental results. Second edition, revised and enlarged. [4],152 p. il. 45 pl. O. New York: J. Wiley & Sons, 1896.

Donkin, Bryan.

621.4 P600

⁸¹²⁴ A text-book on gas, oil, and air engines; or, Internal combustion motors without boiler. Second edition, revised and largely rewritten. xxiv,500 p. 154 il. O. London: C. Griffin & Co., 1896.

Hiscox, Gardner Dexter.**621.4 P700**

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Richards, Frank.**621.5 P500**

¹⁰⁷²⁶ Compressed air. Practical information upon air-compression and the transmission and application of compressed air. First edition. . . . v,203 p. 25 il. 1 table. D. New York: J. Wiley & Sons, 1897.

Taylor, A. J. Wallis.**621.5 P701**

¹⁹⁵⁸⁰ Refrigerating and ice-making machinery. A descriptive treatise for the use of persons employing refrigerating and ice-making installations, and others. Second edition, with additions. xviii, 280 p. il. 4 pl. D. London: C. Lockwood & Son, 1897.

Barr, William Miller.**621.64 P300**

¹²¹³⁴ Pumping machinery. A practical hand-book relating to the construction and management of steam and power pumping machines. 447 p. il. 2 pl. O. Philadelphia: J. B. Lippincott Co., 1893.

Robinson, Stillman Williams.**621.81 P600**

⁵⁹²¹ Principles of mechanism. A treatise on the modification of motion by means of the elementary combinations of mechanism, or of the parts of machines. . . . First edition. . . . xv,309 p. 353 il. O. New York: J. Wiley & Sons, 1896.

Rose, Joshua.**L621.9 P100**

¹³⁹⁵ Modern machine-shop practice. Second edition, fully revised and with important additions. 2 vol. il. pl. sq. F. New York: C. Scribner's Sons, 1892.

Wilson, Herbert S.**621.9 P803**

¹⁹²³⁸ The practical tool-maker and designer: a treatise upon the designing of tools and fixtures for machine tools and metal working machinery, comprising modern examples of machines with fundamental designs for tools for the actual production of the work; together with special reference to a set of tools for machining the various parts of a bicycle. xv,209 p. 72 pl. O. Philadelphia: H. C. Baird & Co., 1898.

622 MINING ENGINEERING

Copp, Henry N., editor.**622.007 P600**

⁶⁶¹¹ American mining code: embracing the United States, state, and territorial mining laws, the Land Office regulations, and a digest of federal and state court and land department decisions. iv, 214 p. O. Washington, D. C.: published by the editor, 1896.

Barringer, Daniel Moreau, & Adams, John Stokes. **622.007 P701**

¹⁸⁰⁷⁴ The law of mines and mining in the United States. cxxv, 878 p. il. O. Boston: Little, Brown, & Co., 1897.

Foster, Clement Le Neve.**622.02 P400**

⁷³⁰⁶ A text-book of ore and stone mining. Second edition. xxviii, [2], 744 p. 711 il. 1 pl. O. London: C. Griffin & Co., 1897.

Gresley, William Stukeley.**622.33 O300**

¹⁴⁰⁹⁰ A glossary of terms used in coal mining. x, [2], 296 p. 138 il. D. London: E. & F. N. Spon, 1883.

624-625 BRIDGE AND ROAD ENGINEERING

Merriman, Mansfield, & Jacoby, Henry S.**624.02 P400**

¹³⁹⁶¹ A text-book on roofs and bridges. . . . 4 vol. il. pl. O. New York: J. Wiley & Sons, 1897-1898.

Vol. 1 is in fourth edition, published in 1898; vol. 2-3 are in third; vol. 4 is in first.

Crosby, Oscar Terry, & Bell, Louis.**625.5 P200**

⁴⁶³⁸ The electric railway in theory and practice. 400 p. 179 il. O. New York: W. J. Johnston Co., 1892.

Clark, Daniel Kinnear.**625.5 P401**

¹³¹⁸⁷ Tramways, their construction and working. Embracing a comprehensive history of the system, with accounts of the various modes of traction . . . , a description of the varieties of rolling stock and ample details of cost and working expenses, with special reference to the tramways of the United Kingdom. Second edition, re-written and greatly enlarged. xxxv, [1], 758 p. il. 11 pl. 1 map. O. London: C. Lockwood & Son, 1894.

Houston, Edwin James, & Kennelly, A. E.**625.5 P601**

⁷²⁹³ Electric street railways. vi, 367 p. 158 il. sq. S. (Elementary electro-technical series.) New York: W. J. Johnston Co., 1896.

Farman, D.**625.6 P600**

⁵⁷¹⁵ Auto-cars. Cars, tramcars, and small cars. Translated from the French by Lucien Serraillier. With preface by Baron de Zuylen de Nyevelt. ix,249 p. 112 il. D. London: Whittaker & Co., 1896.

Tayler, A. J. Wallis-.**625.6 P700**

⁹³⁷⁴ Motor cars; or, Power-carriages for common roads. xii,200 p. 76 il. D. London: C. Lockwood & Son, 1897.

Love, Edward Gurley, editor.**625.7 P001**

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Consists of papers reprinted from the *Engineering and building record*.

Spalding, Frederick Putnam.**625.7 P500**

¹⁰⁸⁰⁸ A text-book on roads and pavements. By Fred P. Spalding. First edition. . . . viii,213 p. 44 il. D. New York: J. Wiley & Sons, 1895.

Shaler, Nathaniel Southgate.**625.7 P600**

⁵⁵⁶⁸ American highways. A popular account of their conditions and of the means by which they may be bettered. xv,293 p. il. 1 pl. D. New York: Century Co., 1896.

Jeans, J. Stephen.**626 P001**

¹¹⁴¹⁸ Waterways and water transport in different countries: with a description of the Panama, Suez, Manchester, Nicaraguan, and other canals. xx,507 p. il. 4 pl. O. London: E. & F. N. Spon, 1890.

628 SANITARY ENGINEERING**Galton, Sir Douglas.****628.02 P600**

⁶⁴⁶⁸ Observations on the construction of healthy dwellings, namely: houses, hospitals, barracks, asylums, etc. Second edition, revised. xvi,306 p. 65 il. O. Oxford: Clarendon Press, 1896.

Chicago. Board of Trustees of the**628.09773 P400**

⁴⁶⁸⁹ *Sanitary District.*

Drainage channel and waterway: a history of the effort to secure an effective and harmless method for the disposal of the sewage of the city of Chicago, and to create a navigable channel between Lake Michigan and the Mississippi River. By G. P. Brown. ix, 480 p. il. 12 pl. 4 maps, 2 tables. O. Chicago: R. R. Donnelley & Sons' Co., 1894.

Mason, William Pitt.

628.1 P700

⁸⁰³⁰ Water-supply. (Considered practically from a sanitary standpoint.) Second edition, revised vii,504 p. il. 9 pl. 2 maps. O. New York: J. Wiley & Sons, 1897.

Burton, William Kinninmond.

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¹⁸⁶⁴⁶ The water supply of towns and the construction of waterworks. A practical treatise for the use of engineers and students of engineering. Second edition, revised and extended. xvi,318 p. il. 39 pl. 2 maps, 5 tables. Q. London: C. Lockwood & Son, 1898.

Milne, J. Considerations concerning the probable effects of earthquakes on waterworks, and the special precautions to be taken in earthquake countries, p. 283-288.

Rijke, J. de. On sand dunes and dune sand as a source of water supply, p. 289-294.

Rideal, Samuel.

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⁸⁹²⁵ Water and its purification. A handbook for the use of local authorities, sanitary officers, and others interested in water supply. xii,292 p. 66 il. 2 tables. D. London: C. Lockwood & Son, 1897.

Hill, John Willmuth.

628.16 P801

¹⁷⁹⁷⁷ The purification of public water supplies. xi,304 p. 32 il. O. New York: D. Van Nostrand Co., 1898.

Contents: 1. Introduction. 2. Sources of public water supply. 3. Bacterial contents of various waters. 4. The typhoid bacillus and typhoid fever. 5. Classification of cities by typhoid fever statistics. 6. Pure and purified waters. 7. Citations on typhoid fever epidemics. 8. Sedimentation of polluted waters. 9. Sterilization of drinking-water. 10. Filtration of water supplies. 11. Types of sand filters. 12. Mechanical filters. 13. Hamburg settling-basins and filters. 14. The filters of the Berlin water-works. 15. The Fischer filter and Anderson purifier. 16. Filters proposed for Cincinnati. 17. Cost of filters and filtration. Appendix A. Typhoid fever statistics from large cities of the world. Appendix B. The bacteria. Appendix C. The legal liability of cities and water companies for damages by sewage polluted water.

"Authorities quoted or referred to," p. 290-293.

Rafter, George W., & Baker, M. N.

L628.3 P300

⁸⁶¹⁸ Sewage disposal in the United States. Second edition. xxvii, 598 p. 116 il. 4 pl. 1 map, 2 tables. Q. New York: D. Van Nostrand Co., 1894.

Waring, George Edwin, Jr.

628.4 P800

¹⁰⁶⁶⁵ Street-cleaning and the disposal of a city's wastes: methods and results and the effect upon public health, public morals, and municipal prosperity. ix,230 p. il. 4 pl. 1 por. D. New York: Doubleday & McClure Co., 1898.

Teale, Thomas Pridgin.

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³³⁰³ Dangers to health: a pictorial guide to domestic sanitary defects. Second edition. [2],10,vi p. 55 pl. O. London: J. & A. Churchill, 1879.

Billings, John Shaw.

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¹⁵⁰² Ventilation and heating. 500 p. 210 il. O. New York: Engineering Record, 1893.

630 AGRICULTURE

Webb, Henry J.

630.2 P400

¹²¹³⁸ Advanced agriculture. viii,672 p. 100 il. D. [Advanced science manuals.] London: Longmans, Green, & Co., 1894.

Storer, Francis Humphreys.

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⁵⁹⁰⁶ Agriculture in some of its relations with chemistry. Seventh edition, revised and enlarged. 3 vol. O. New York: C. Scribner's Sons, 1897.

Bailey, Liberty Hyde, editor.

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⁸⁰⁰¹² The principles of agriculture. A text-book for schools and rural societies. xv,300 p. 92 il. D. [Rural science series.] New York: Macmillan Co., 1898.

King, Franklin Hiram.

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¹¹¹³⁷ The soil: its nature, relations, and fundamental principles of management. xv,303 p. 45 il. D. [Rural science series.] New York: Macmillan Co., 1897.

Roberts, Isaac Phillips.

631 P700

⁸⁰¹⁶ The fertility of the land. A summary sketch of the relationship of farm-practice to the maintaining and increasing of the productivity of the soil. xvii,415 p. 45 il. D. [Rural science series.] New York: Macmillan Co., 1897.

Crole, David.

633.286 P700

⁹²⁹⁶ Tea. A text book of tea planting and manufacture. Comprising chapters on the history and development of the industry, the cultivation of the plant, the preparation of the leaf for the market, the botany and chemistry of tea, etc., etc. With some account of the laws affecting labour in tea gardens in Assam and elsewhere. xii,242 p. il. 4 pl. O. London: C. Lockwood & Son, 1897.

Nicholson, George, *editor*.

L634 O400

- ¹⁵⁹⁷⁵ The illustrated dictionary of gardening, a practical and scientific encyclopædia of horticulture for gardeners and botanists. Edited by George Nicholson, assisted by professor J. W. H. Trail, in the parts relating to insects, fungi, plant structure, horticultural chemistry, &c.; and J. Garrett in the fruit, vegetable, and general garden work portions. 4 vol. il. pl. sq.Q. London: L. U. Gill, [1884-1888].

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- ¹⁷¹⁶⁹ Sketch of the evolution of our native fruits. xiii, 472 p. 125 il. 1 por. D. New York: Macmillan Co., 1898.

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Card, Fred Wallace.

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Hough, Franklin Benjamin.

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- ¹³⁵¹⁷ The elements of forestry. Designed to afford information concerning the planting and care of forest trees for ornament or profit and giving suggestions upon the creation and care of woodlands, ... , particularly adapted to the wants and conditions of the United States. ix, 381 p. 169 il. O. Cincinnati: R. Clarke & Co., 1882.

Ward, Harry Marshall.

634.9 O900

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Schlich, William.**634.9 P500**

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Vol. 1 and 2 are in second edition, revised, published in 1896 and 1897.

Vol. 4-5 published under the title: Schlich's manual of forestry.

Vol. 4 is an English adaptation, by W. R. Fisher, of Hess, Richard. *Der Forstschutz*; vol. 5 is a translation, by W. R. Fisher, of Gayer, Karl. *Die Forstbenutzung*.

Vol. 1 contains a new part on The state in relation to forestry, and a general review of the timber requirements of the British Empire.

Bailey, Liberty Hyde.**635 P600**

¹⁵¹²⁵ The nursery-book: a complete guide to the multiplication of plants. Third edition. xi,365 p. 152 il. D. [Garden-craft series.] New York: Macmillan Co., 1896, pref. 1891.

Bailey, Liberty Hyde.**635 P800**

¹⁶⁷⁹⁸ Garden-making. Suggestions for the utilizing of home grounds. Third edition, revised. vii,417 p. 256 il. S. [Garden-craft series.] New York: Macmillan Co., 1899.

Henry, William Arnon.**636 P800**

¹⁵⁰⁸⁴ Feeds and feeding. A hand-book for the student and stockman. vi,657 p. O. Madison, Wis.: published by the author, 1898.

Fleming, George.**636.1 P001**

¹⁰¹⁰⁴ The practical horse keeper. viii,264 p. il. D. London: L. U. Gill, [1890].

Fleischmann, Wilhelm.**637 P300**

¹²⁸⁰³ The book of the dairy. A manual of the science and practice of dairy work. Translated from the German by C. M. Aikman and R. Patrick Wright. xxiv,344 p. 83 il. 6 pl. O. London: Blackie & Son, 1896.

Wing, Henry Hiram.**637 P701**

⁹⁶⁸⁸ Milk and its products. A treatise upon the nature and qualities of dairy milk and the manufacture of butter and cheese. xiii,280 p. 33 il. D. [Rural science series.] New York: Macmillan Co., 1897.

Cheshire, Frank R.**638 O600**

¹²⁷²⁰ Bees & bee-keeping; scientific and practical. A complete treatise on the anatomy, physiology, floral relations, and profitable management of the hive bee. . . . 2 vol. il. pl. D. London: L. U. Gill, 1886-1888.

Contents: Vol. 1. Scientific. Vol. 2. Practical.

640 DOMESTIC ECONOMY

Campbell, Helen, [*born Stuart*]. 640.2 P600

⁴⁹⁹⁶ Household economics. A course of lectures in the School of Economics of the University of Wisconsin. xxi,286 p. O. New York: G. P. Putnam's Sons, 1897.

Richards, Ellen Henrietta, [*born Swallow*], 640.2 P700
¹⁰¹⁴⁹ & Elliott, S. Maria.

The chemistry of cooking and cleaning. A manual for housekeepers. Second edition, revised and rewritten. vi,[2],158 p. D. Boston: Home Science Publishing Co., 1897.

Parloa, Maria. 640.2 P801

¹⁶³¹¹ Home economics. A guide to household management including the proper treatment of the materials entering into the construction and the furnishing of the house. xii,378 p. 52 il. D. New York: Century Co., 1898.

Abel, Mrs. Mary Hinman. 641 P004

⁹⁹⁷⁷ Practical, sanitary and economic cooking adapted to persons of moderate and small means. The Lomb prize essay. Inscription: "The five food principles, illustrated by practical recipes." x, [2],186 p. D. Rochester: American Public Health Association, 1890.

Ronald, Mary. 641 P500

³⁸⁰⁰ The Century cook book. . . . xiv,[2],588 p. 60 pl. O. New York: Century Co., 1896.

Atkinson, Edward. 641 P501

⁶¹⁶⁶ The science of nutrition. Treatise upon the science of nutrition. The Aladdin oven, invented by Edward Atkinson. . . . Diets carefully computed under the direction of Mrs. Ellen H. Richards. . . . Nutritive values of food materials, collated from the writings of Prof. W. O. Atwater. . . . [Fourth edition.] . . . 246 p. il. 1 pl. sq.O. Boston: Damrell & Upham, 1896.

Jago, William. 641 P502

⁸⁹⁹¹ A text-book of the science and art of bread-making; including the chemistry and analytic and practical testing of wheat, flour, and other materials employed in baking. 11,648 p. 81 il. 14 pl. O. London: Simpkin, . . . , Kent & Co., 1895.

Pennell, Elizabeth, [born] Robins.

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Farmer, Fannie Merritt.

641 P603

⁸⁸⁸⁰ The Boston Cooking-School cook book. xxx,567 p. il. D. Boston: Little, Brown, & Co., 1896.

König, Joseph.

643 0900

⁸⁹⁴⁷ Chemie der menschlichen Nahrungs- und Genussmittel. . . . Dritte sehr vermehrte und verbesserte Auflage. 2 vol. il. O. Berlin: J. Springer, 1889-1893.

Contents: Vol. 1. Chemische Zusammensetzung der menschlichen Nahrungs- und Genussmittel. Nach vorhandenen Analysen, mit Angabe der Quellen zusammengestellt. Mit einer Einleitung über die Ernährungslehre. Vol. 2. Die menschlichen Nahrungs- und Genussmittel, ihre Herstellung, Zusammensetzung und Beschaffenheit, ihre Verfälschungen und deren Nachweis.

Springsteed, Anne Frances.

643 P400

³⁸⁸⁰ The expert waitress: a manual for the pantry, kitchen, and dining-room. [8],131 p. S. New York: Harper & Brothers, c. 1894.

Cook, Clarence [Chatham].

645 N700

¹³⁹⁶⁸ The house beautiful. Essays on beds and tables, stools and candlesticks. 336 p. 99 il. O. [New York]: C. Scribner's Sons, 1895, c. 1877.

Steele, Frances Mary, &

646 P200

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Adams, Elizabeth Livingston Steele.

Beauty of form and grace of vesture. [2],vii,231 p. il. 16 pl. paged in. D. New York: Dodd, Mead & Co., 1894.

Davis, Jeanette E., & Holahan, Cora M.

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³⁸²⁰ The elements of modern dressmaking: for the amateur and professional dressmaker. xii,193 p. 46 il. 1 pl. D. New York: Cassell Publishing Co., c. 1894.

Ortner, Jessica.

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⁸⁸¹⁷ Practical millinery. xii,170 p. 46 il. D. London: Whittaker & Co., 1897.

650 COMMERCE

Bryant, John Collins.**650.2 P100**

- ⁹⁷⁶³ The business man's commercial law and business forms combined. A vade-mecum for the counting-house. Edited by the Hon. Geo. W. Clinton. Fourteenth edition.—Revised. 240,[2],57 p. 1 por. O. Buffalo, N. Y.: J. C. Bryant, 1897, c. 1891.

655 PRINTING AND PUBLISHING

MacKellar, Thomas.**655.02 N800**

- ¹⁸⁷⁶ The American printer: a manual of typography, [Eighteenth edition, . . . enlarged.] xiv,384 p. il. 1 por. O. Philadelphia: MacKellar, Smiths & Jordan, 1893.

Putnam, George Haven & Putnam, J. B.**655.02 P700**

- ¹⁸⁷⁵² Authors and publishers. A manual of suggestions for beginners in literature. Comprising a description of publishing methods and arrangements, directions for the preparation of mss. for the press, explanations of the details of book-manufacturing, instructions for proof-reading, specimens of typography, the text of the United States copyright law and information concerning copyrights, together with general hints for authors. By G. H. P. and J. B. P. Seventh edition, rewritten with additional material. ix, [2],292 p. 1 facsim. O. New York: G. P. Putnam's Sons, 1897.

Southward, John.**655.02 P800**

- ¹⁸⁰⁷⁵ Modern printing. A handbook of the principles and practice of typography and the auxiliary arts. By John Southward, assisted by well-known experts. Vol. 1—. il. pl. por. table. O. London: Raithby, Lawrence & Co., 1898—.

[Pasko, Wesley Washington, *editor*.]**L655.03 P400**

- ³² American dictionary of printing and book-making, containing a history of these arts in Europe and America, with definitions of technical terms and biographical sketches. [2],iv,592 p. il. 1 por. sq. Q. New York: H. Lockwood & Co., 1894.

Bouchot, Henri.**L655.09 O600**

- ²⁰⁸ The printed book, its history, illustration, and adornment, from the days of Gutenberg to the present time. Translated and enlarged by Edward C. Bigmore. viii,312 p. 118 il. Q. London: H. Grevel & Co., 1887.

Duff, Edward Gordon.

655.1 P300

³¹⁰ Early printed books. xii,219 p. 11 pl. O. [Books about books.] London: Kegan Paul, ... & Co., 1893.

De Vinne, Theodore Low.

655.11 N600

²¹⁰⁸ The invention of printing. A collection of facts and opinions descriptive of early prints and playing cards, the block-books of the fifteenth century, the legend of Lourens Janszoon Coster, of Haarlem, and the work of John Gutenberg and his associates. Second edition. 557 p. il. 1 pl. O. New-York: F. Hart & Co., 1878.

Putnam, George Haven.

655.44 P600

³⁶²⁴ Books and their makers during the Middle Ages. A study of the conditions of the production and distribution of literature from the fall of the Roman Empire to the close of the seventeenth century. 2 vol. O. New York: G. P. Putnam's Sons, 1896-1897.

Blackburn, Henry.

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¹⁷¹⁰⁶ The art of illustration. Second edition. xvi,240 p. il. 13 pl. paged in, 1 pl. 2 por. paged in. Q. London: W. H. Allen & Co., 1896.

Pennell, Joseph.

655.53 P500

²⁶⁶ Modern illustration. xxv,134 p. il. 95 pl. D. [Ex-libris series.] London: G. Bell & Sons, 1895.

Pennell, Joseph.

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⁴¹²⁴ The illustration of books. A manual for the use of students, notes for a course of lectures at the Slade School, University College. xii,168 p. D. New York: Century Co., pref. 1895.

Crane, Walter.

655.53 P600

⁶⁶⁰² Of the decorative illustration of books, old and new. xii,355 p. il. sq.D. [Ex-libris series.] London: G. Bell & Sons, 1896.

Putnam, George Haven.

655.6 P600

¹³⁷⁴ The question of copyright. Comprising the text of the copyright law of the United States, a summary of the copyright laws at present in force in the chief countries of the world, ... Second edition, revised, and with additional material. xxiv,[2],486 p. O. New York: G. P. Putnam's Sons, 1896.

656 TRANSPORTATION

Clarke, Thomas Curtis, & others.

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McCain, Charles Curtice, editor.

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- ³⁴⁸⁹ Compendium of transportation theories. A compilation of essays upon transportation subjects by eminent experts. 295 p. O. (Kensington series, no. 1.) Washington, D. C.: Kensington Publishing Co., 1893.

Hadley, Arthur Twining.

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Adams, Charles Francis, Jr.

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- ³¹³⁹ Railroads: their origin and problems. [4], 216 p. D. New York: G. P. Putnam's Sons, 1878.

Van Oss, S. F.

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- ¹²⁶⁵ American railroads as investments. A handbook for investors in American railroad securities. xv, 815, [2], vii p. 5 maps. O. New York: G. P. Putnam's Sons, 1893.

Nares, Sir George Strong.

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- ¹⁰⁵² Seamanship: Sixth edition, enlarged and revised by Lieut. Arthur C. B. Bromley. xi, [1], 291 p. il. 140 pl. O. New York: E. & F. N. Spon, 1882.

660 CHEMICAL TECHNOLOGY

660.1-660.9 GENERAL WORKS

Johnston, James Finlay Weir.

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- ¹³⁰⁸⁷ The chemistry of common life. A new edition revised, and brought down to the present time by Arthur Herbert Church. xxvi, 592 p. 102 il. O. New York: D. Appleton & Co., 1898, pref. 1879.

Wagner, Rudolph von.

L660.2 0800

⁴²²⁶ Manual of chemical technology, translated and edited by William Crookes, from the thirteenth enlarged German edition as remodelled by Dr. Ferdinand Fischer. xxiii,968 p. 596 il. Q. New York: D. Appleton & Co., 1895.

Groves, Charles Edward, & Thorp, William, editors. **L660.2 0900**

⁸⁰⁰³ Chemical technology; or, Chemistry in its applications to arts and manufactures. With which is incorporated Richardson and Watts' Chemical technology. Vol. 1-2. il. pl. map. Q. London: J. & A. Churchill, 1889-1895.

Each volume is written by various contributors.

Fischer, Ferdinand.

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⁸⁵⁸⁰ Handbuch der chemischen Technologie. (Zugleich 14. völlig umgearbeitete Auflage von R. von Wagner's Handbuch der chemischen Technologie.) xii,1164 p. 716 il. O. Leipzig: Otto Wigand, 1893.

Sadtler, Samuel Philip.

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⁴²⁰⁷ A hand-book of industrial organic chemistry adapted for the use of manufacturers, chemists, and all interested in the utilization of organic materials in the industrial arts. Second revised and enlarged edition. 537 p. 127 il. 1 table. O. Philadelphia: J. B. Lippincott Co., 1895.

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Dammer, Otto.

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Lassar-Cohn, Dr.

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Thorpe, Thomas Edward, *editor*.

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¹²⁰⁰ A dictionary of applied chemistry. . . . 3 vol. il. O. London: Longmans, Green, & Co., 1893-1895.

Vol. 1: third edition, 1894. Vol. 2: second edition, 1895. Vol. 3: 1893.

Weidinger, G.

660.3 P101

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Lunge, Georg.

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⁵¹⁸⁵ A theoretical and practical treatise on the manufacture of sulphuric acid and alkali, with the collateral branches. Second edition, revised and enlarged. 3 vol. il. pl. tables. O. London: Gurney & Jackson, 1891-1896.

Fulton, John, *E. M.*

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⁴⁶⁰⁹ Coke. A treatise on the manufacture of coke and the saving of by-products. With special references to the methods and ovens best adapted to the production of good coke from the various American coals. [2],vi,342 p. il. 4 pl. 1 por. O. Scranton, Pa.: Colliery Engineer Co., 1895.

Hansen, Emil Christian.

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⁴³²⁹ Practical studies in fermentation: being contributions to the life history of micro-organisms. Translated by Alex. K. Miller, and revised by the author. xiv,277 p. 19 il. O. London: E. & F. N. Spon, 1896.

Sykes, Walter John.

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¹⁷⁶⁶⁸ The principles and practice of brewing. xix,511 p. il. 1 pl. O. London: C. Griffin & Co., 1897.

Sulz, Charles Hermann.

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⁵¹²⁹³ A treatise on beverages; or, The complete practical bottler. Full instructions for laboratory work with original practical recipes for all kinds of carbonated drinks, mineral waters, flavorings, extracts, syrups, etc. xxv,818 p. 428 il. O. New York: C. H. Sulz & Co., 1888.

Brannt, William Theodore.**665.5 P400**

- ⁴²³¹ Petroleum: its history, origin, occurrence, production, physical and chemical constitution, technology, examination and uses; together with the occurrence and uses of natural gas. Edited chiefly from the German of Prof. Hans Hoefer and Dr. Alexander Veith. xxvii, 715 p. 284 il. 1 pl. 2 maps. O. Philadelphia: H. C. Baird & Co., 1895.

Butterfield, W. J. Atkinson.**665.7 P500**

- ⁴⁹⁸⁹ Gas manufacture: the chemistry of. A practical handbook on the production, purification, and testing of illuminating gas, and the assay of the bye-products of gas manufacture. . . . xiv, 375 p. il. 1 pl. D. London: C. Griffin & Co., 1896.

Gibbs, William E.**665.801 P900**

- ¹⁹⁰⁹⁰ Lighting by acetylene. Generators, burners and electric furnaces. Second edition, revised and enlarged. ix, 161 p. 64 il. D. New York: D. Van Nostrand Co., 1899.

Nesbitt, Alexander.**666.1 N800**

- ⁴⁹⁴⁶ Glass. viii, 143 p. il. O. [SOUTH KENSINGTON MUSEUM. Art handbooks.] New York: Scribner & Welford, 1879.

Powell, Harry James.**666.1 O300**

- ¹⁸¹²³ The principles of glass-making, by Harry J. Powell, together with treatises on crown and sheet glass, by Henry Chance, and plate glass, by H. G. Harris. vi, 186 p. il. D. (Technological handbooks.) London: G. Bell & Sons, 1883.

"List of works relating to glass manufacture," p. 179-180.

Hummel, J. J.**667.2 O500**

- ⁵⁰¹⁹ The dyeing of textile fabrics. . . . xii, 534 p. 97 il. S. [Manuals of technology.] London: Cassell & Co., 1896, pref. 1885.

Terry, George.**667.6 P300**

- ⁵³²³ Pigments, paint, and painting. A practical book for practical men. xi, [2], 392 p. 49 il. D. London: E. & F. N. Spon, 1893.

Brannt, William Theodore.**667.7 P300**

- ⁴⁸⁰⁹ Varnishes, lacquers, printing inks and sealing-waxes: their raw materials and their manufacture. To which is added the art of varnishing and lacquering, including the preparation of putties and of stains for wood, ivory, bone, horn, and leather. xix, 338 p. 39 il. O. Philadelphia: H. C. Baird & Co., 1893.

Carpenter, William Lant. 668.1 P500

⁶⁰¹¹ A treatise on the manufacture of soap and candles, lubricants and glycerin. Second edition, revised and enlarged by Henry Leask. x,[2],446 p. 104 il. D. London: E. & F. N. Spon, 1895.

Piesse, Charles Henry. 668.5 P100

⁶⁴¹⁷ Piesse's art of perfumery and the methods of obtaining the odours of plants. The growth and general flower farm system of raising fragrant herbs. . . . Fifth edition. xvii,498 p. il. 1 pl. O. London: Piesse & Lubin, 1891.

Lunge, Georg. 668.7 O700

⁶³⁴⁵ Coal-tar and ammonia. Being the second and enlarged edition of 'A treatise on the distillation of coal-tar and ammoniacal liquor.' xvi,739 p. 191 il. O. London: Gurney & Jackson, 1887.

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⁶⁴¹⁵ Coal and what we get from it. A romance of applied science. Expanded from the notes of a lecture delivered in the theatre of the London Institution, Jan. 20th, 1890. . . . 210 p. 11 il. S. (Romance of science.) London: Society for Promoting Christian Knowledge, 1891.

Austen, William Chandler Roberts-. 669.02 P400

⁶⁰⁰² An introduction to the study of metallurgy. Third edition, revised and enlarged. . . . xvi,379 p. il. 1 pl. 1 table. O. London: C. Griffin & Co., 1894.

Schnabel, Carl. 669.02 P404

¹⁶⁶⁹⁶ Handbook of metallurgy. Translated by Henry Louis. . . . 2 vol. il. O. London: Macmillan & Co., 1898.

Richards, Joseph William. 669.703 P500

⁴⁵²⁹ Aluminium: its history, occurrence, properties, metallurgy and applications, including its alloys. Third edition, revised and enlarged. xv,666 p. 46 il. O. Philadelphia: H. C. Baird & Co., 1896.

Furman, Howard Van Fleet. 669.9 P600

⁴³²² A manual of practical assaying. Fourth edition, revised and enlarged. . . . vi,437 p. il. O. New York: J. Wiley & Sons, 1896.

670 MANUFACTURES

Lewis, J. Slater.**L670.2 P600**

- ⁵⁹³³ The commercial organisation of factories. A handbook for the use of manufacturers, directors, auditors, engineers, . . . , etc. xxxvi,540 p. il. 2 tables, 3 tables in pocket. Q. London: E. & F. N. Spon, 1896.

Bolland, Simpson.**671 P400**

- ⁵⁹³⁶ The encyclopedia of founding and dictionary of foundry terms, used in the practice of moulding. . . . First edition. . . . iv,535 p. D. New York: J. Wiley & Sons, 1894.

Smith, Oberlin.**671 P600**

- ⁵⁹³⁷ Press-working of metals. A treatise upon the principles and practice of shaping metals in dies by the action of presses, First edition. . . . 276 p. 431 il. 1 pl. O. New York: J. Wiley & Sons, 1896.

Brannt, William Theodore.**671 P603**

- ¹²⁰⁵⁸ The metal worker's handy-book of receipts and processes. Being a collection of chemical formulas and practical manipulations for the working of all the metals and alloys; including the decoration and beautifying of articles manufactured therefrom, as well as their preservation. Edited from various sources. xxiii,33-538 p. 63 il. D. Philadelphia: H. C. Baird & Co., 1896, c. 1890.

Warn, Reuben Henry.**671 P604**

- ¹²³¹⁴ The sheet-metal worker's instructor, comprising a selection of geometrical problems and practical rules for describing the various patterns required by zinc, sheet-iron, copper, and tin-plate workers. New edition, revised and greatly enlarged by Joseph G. Horner. vii,246 p. 429 il. D. London: C. Lockwood & Son, 1896.

Brannt, William Theodore.**671 P605**

¹⁸⁸²³ The metallic alloys. A practical guide for the manufacture of all kinds of alloys, amalgams, and solders, used by metal-workers; together with their chemical and physical properties and their application in the arts and the industries; with an appendix on the coloring of alloys and the recovery of waste metals. A new, revised, and enlarged edition. xxvii, 527 p. 34 il. O. Philadelphia: H. C. Baird & Co., 1896.

Compiled principally from the following: Thurston, R. H. A treatise on brasses, bronzes and other alloys; Krupp, A. Die Legirungen; Ledebur, A. Die Metallverarbeitung auf chemischphysikalischem Wege; Muspratt, J. S. Theoretische, praktische und analytische Chemie.

Fuller, John, Sr.**671.19 P300**

³³⁴² Art of coppersmithing. A practical treatise on working sheet copper into all forms. [2], vii, 327 p. 475 il. 2 pl. 1 por. O. New York: D. Williams, 1894.

Wigley, Thomas B.**671.45 P800**

¹⁹⁸²⁹ The art of the goldsmith and jeweller: a treatise on the manipulation of gold in the various processes of goldsmith's work, and the manufacture of personal ornaments, &c., &c. By Thomas B. Wigley, assisted by John H. Stansbie. xi, 248 p. 144 il. O. London: C. Griffin & Co., 1898.

Lethaby, William Richard.**671.49 P300**

³²²⁴ Leadwork, old and ornamental and for the most part English. viii, 148 p. 76 il. D. London: Macmillan & Co., 1893.

Gee, George E.**671.81 O500**

¹⁸⁸²² The silversmith's handbook. Containing full instructions for the alloying and working of silver. . . . Third edition. xxvi, 221 p. 40 il. S. [Weale's scientific & technical series.] London: C. Lockwood & Son, 1890.

Smith, J. Bucknall.**L671.97 P100**

³⁹⁸⁷ A treatise upon wire, its manufacture and uses, embracing comprehensive descriptions of the constructions and applications of wire ropes. xxii, [2], 347 p. il. 2 pl. 1 table. Q. London: "Engineering," 1891.

Ede, George.**672 M300**

³⁹¹⁹ The management of steel. Sixth edition. xii, 204 p. D. London: E. & F. N. Spon, 1891.

Gardner, John Starkie.**672 P200**

⁹⁸³ Ironwork. . . . [2 vol.] il. D. [SOUTH KENSINGTON MUSEUM. Art handbooks.] London: Chapman & Hall, 1893-1897.

Contents: Vol. 1. From the earliest time to the end of the Mediæval period. Vol. 2. From the close of the Mediæval period to the end of the eighteenth century, excluding English work.

Leland, Charles Godfrey.**675 P200**

¹⁰⁹⁰ Leather work. A practical manual for learners. xiii,96 p. 60 il. 1 pl. sq.O. London: Whittaker & Co., 1892.

Davis, Charles Thomas.**675 P700**

¹²³⁶⁷ The manufacture of leather: being a description of all of the processes for the tanning and tawing . . . , and the currying, finishing and dyeing of every kind of leather; . . . , with special reference to the best American practice. To which are added lists of American patents (1884-1897) Second edition, revised and in great part rewritten. xxxii,680 p. 147 il. 2 pl. O. Philadelphia: H. C. Baird & Co., 1897.

Cross, C. F., & Bevan, E. J.**676 O700**

³⁷⁸⁸ Text-book of paper-making. vii,244 p. 81 il. 3 pl. D. London: E. & F. N. Spon, 1888.

Watt, Alexander.**676 P001**

³⁵⁹³ The art of paper-making: a practical handbook of the manufacture of paper . . . , including the manufacture of pulp from wood fibre. With a description of the machinery and appliances used. To which are added details of processes for recovering soda from waste liquors. xii,260 p. 86 il. D. London: C. Lockwood & Son, 1890.

Bell, T. F.**677 P401**

³²⁶⁴ Jacquard weaving and designing. vi,[2],303 p. 199 il. O. London: Longmans, Green, & Co., 1895.

Taggart, William Scott.**677.19 P501**

³²³³ Cotton spinning. . . . 3 vol. il. 1 pl. D. London: Macmillan & Co., 1896-1898.

Vol. 2 reprinted from *The Textile mercury*.

680 TRADES**Leland, Charles Godfrey.****680.2 P600**

⁶⁰⁶³ A manual of mending and repairing. xxi,264 p. il. D. New York: Dodd, Mead & Co., 1896.

Glasgow, David.

681 O500

³⁹⁹⁵ Watch and clock making. xii,341 p. 68 il. S. [Manuals of technology.] London: Cassell & Co., 1893.

Richardson, Milton Thomas, *editor*.

682 P001

³⁹⁹⁸ Practical blacksmithing. A collection of articles contributed at different times by skilled workmen to the columns of "The Blacksmith and wheelwright" ... 4 vol. il. D. New York: M. T. Richardson, 1890-1895.

Compton, Alfred George.

682 P002

⁴⁰⁴⁴ First lessons in metal working. iv,[2],170 p. 95 il. D. New York: J. Wiley & Sons, 1890.

Goss, William Freeman Myrick.

684 O700

⁸⁴⁰³ Bench work in wood: a course of study and practice designed for the use of schools and colleges. xi,161 p. 306 il. D. Boston, U. S. A.: Ginn & Co., 1896, c. 1887.

Cabinet maker.

684 P200

⁴⁰³⁷ The cabinet maker: a practical guide to the principles of design, and the economical and sound construction of household furniture, furnishings, and fittings; ... Edited by the editor of "The industrial self-instructor." xii,178 p. il. 10 pl. O. [Practical mechanic series.] London: Ward, ... , & Co., 1892.

Hasluck, Paul N.

684.1 O300

¹⁶²¹² Lathe-work. A practical treatise on the tools, appliances, and processes employed in the art of turning ... etc. Sixth edition. xii,212 p. 51 il. D. London: C. Lockwood & Son, 1898.

Lukin, James.

684.1 O800

⁴⁶³¹ Turning lathes: a manual for technical schools and apprentices. A guide to turning, screw-cutting, metal-spinning, &c., &c. vi, [2],160 p. il. D. London: E. & F. N. Spon, 1888.

Golden, Michael Joseph.

684.1 P700

⁸¹⁰⁸ A laboratory course in wood-turning. [2],69 p. 123 il. O. New-York: Harper & Brothers, 1897.

Richardson, Milton Thomas, *editor*.

684.5 P200

³⁹³⁹ Practical carriage building: comprising numerous short practical articles ... 2 vol. il. D. New York: M. T. Richardson Co., 1892.

Burr, S. D. V., *editor*.

684.7 P600

²⁹⁸⁰ Bicycle repairing. A manual compiled from articles in the Iron age. ... 166 p. il. O. New York: D. Williams, 1896.

Sharp, Archibald.**684.7 P601**

- ⁵⁹²⁵ Bicycles & tricycles. An elementary treatise on their design and construction. . . . xviii, 536 p. 565 il. D. London: Longmans, Green, & Co., 1896.

Tayler, A. J. Wallis.**684.7 P700**

- ⁷²⁵¹ Modern cycles. A practical handbook on their construction and repair. xvi, 340 p. 304 il. 1 pl. D. London: C. Lockwood & Son, 1897.

Crane, W. J. E.**686 O500**

- ¹⁰⁶⁵ Bookbinding for amateurs: being descriptions of the various tools and appliances required and minute instructions for their effective use. vi, [2], 184 p. 156 il. D. London: L. Upcott Gill, [1885].

Zaehnsdorf, Joseph William.**686 P001**

- ⁸¹³² The art of bookbinding. A practical treatise. Second edition, . . . enlarged. xix, 190 p. il. 8 pl. D. (Technological handbooks.) London: G. Bell & Sons, 1890.

Prideaux, Sarah Treverbian.**686 P300**

- ¹⁹ An historical sketch of bookbinding, with a chapter on early stamped bindings by E. Gordon Duff. vi, [2], 303 p. 3 pl. O. London: Lawrence & Bullen, 1893.

Contains a bibliography of bookbinding.

Horne, Herbert P.**686 P401**

- ³⁷⁰⁶ The binding of books. An essay in the history of gold-tooled bindings. xiii, [3], 224 p. 1 il. 13 pl. O. [Books about books.] London: Kegan Paul, . . . , & Co., 1894.

690 BUILDING

Hatfield, Robert Griffith.**690.2 O003**

- ²¹¹⁵ The American house carpenter. A treatise on the art of building. . . . ; together with a compend of mathematics. . . . Eighth edition, rewritten and enlarged. Edited by O. P. Hatfield. Twelfth edition. . . . [2], 685 p. 450 il. 16 pl. O. New York: J. Wiley & Sons, 1895, c. 1880.

Spon, E. & F. N., publishers.**690.2 O401**

- ⁴⁶³⁶ Spons' mechanics' own book: a manual for handicraftsmen and amateurs. Third edition. xii, 702 p. 1424 il. O. London 1889.

Berg, Louis de Coppet.

690.2 O900

³⁰⁴⁷ Safe building: a treatise giving ... the practical and theoretical rules and formulæ used in the construction of buildings. 2 vol. il. pl. tables. O. Boston: Ticknor & Co., 1892-1894.

Vol. 1: fourth edition, revised, published in 1894, c. 1889.

Kidder, Frank Eugene.

690.2 P600

⁵⁸³⁵ Building construction and superintendence. Part I-. il. O. New York: W. T. Comstock, 1896-.

Thurston, Robert Henry.

691 O900

³¹⁸⁸ ... Materials of engineering. 3 vol. il. pl. table. O. New York: J. Wiley & Sons, 1893-1898.

Contents: Vol. 1. A treatise on the non-metallic materials of engineering, stone, timber, fuel, lubricants, etc. Vol. 2. A treatise on iron and steel. Vol. 3. A treatise on brasses, bronzes, and other alloys, and their constituent metals.

Vol. 1 is in fourth revised edition; vol. 2, in seventh revised edition; vol. 3, in third edition, revised.

Newman, John.

691.7 P602

⁶⁴⁴⁶ Metallic structures: corrosion and fouling, and their prevention. A practical aid-book to the safety of works in iron and steel, and of ships; and to the selection of paints for them. xi, 374 p. il. D. London: E. & F. N. Spon, 1896.

Leaning, J.

692.5 P700

⁷⁴⁶⁷ Quantity surveying. For the use of surveyors, architects, engineers, and builders. Third edition, revised and enlarged. ... xvi, 547 p. 68 il. O. London: E. & F. N. Spon, 1897.

Clark, Theodore Minot.

692.6 O300

³⁰⁸⁴ Building superintendence: a manual for young architects, students, and others interested in building operations as carried on at the present day. Thirteenth edition. [4], 336 p. 194 il. O. New York: Macmillan & Co., 1895, c. 1883.

Baker, Ira Osborn.

693 P900

³⁰⁰³² A treatise on masonry construction. Ninth edition, revised and partially rewritten. ... xiii, 556 p. 160 il. 6 pl. O. New York: J. Wiley & Sons, 1899.

Kemp, Wilfred.

693.6 P300

³⁷⁴⁰ The practical plasterer: a compendium of plain and ornamental plaster work, with useful recipes and a glossary of terms. vi, [2], 184 p. 52 il. nar. D. London: C. Lockwood & Son, 1893.

Industrial School Association, Boston.

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²⁹⁴¹ Wood-working tools; how to use them. A manual. ix, 101, [1], p. il. D. Boston: D. C. Heath & Co., 1887, c. 1881.

Kilbon, George Baldwin.

694 P300

- ³⁰⁴⁴ Manual training. Elementary woodwork: a series of sixteen lessons taught in the senior grammar grade at Springfield, Mass., and designed to give fundamental instruction in use of all the principal tools needed in carpentry and joinery. [4],99 p. 207 il. D. Boston: Lee & Shepard, 1893.

Young, Francis Chilton.

694 P500

- ³⁷²¹ Home carpentry for handy men: a book of practical instruction in ... constructive and decorative work in wood vii,772 p. 571 il. O. London: Ward, Lock & Bowden, 1895.

Davies, Philip John.

696 O500

- ³⁷²² Standard practical plumbing: being a complete encyclopædia for practical plumbers and guide for architects, builders, gas fitters, hot water fitters, ironmongers, lead burners, sanitary engineers, zinc workers, 2 vol. il. pl. por. sq.O. London: E. & F. N. Spon, 1895-1896.

Vol. 1 in fourth, revised edition.

Carpenter, Rolla Clinton.

697 P501

- ³¹⁰⁸ Heating and ventilating buildings. An elementary treatise. First edition. xiii,411 p. 228 il. 1 pl. O. New York: J. Wiley & Sons, 1896.

Baldwin, William James.

697.4 O900

- ³³⁸⁷ Hot-water heating and fitting; or, Warming buildings by hot-water. Third edition, [8],392,[6] p. il. 2 pl. O. New York: Engineering Record, 1891.

Hood, Charles.

697.4 P700

- ⁸²¹² A practical treatise upon warming buildings by hot water and upon heat and heating appliances in general. With an enquiry respecting ventilation, the cause and action of draughts in chimneys or flues, and the laws relating to combustion. Rewritten by Frederick Dye. Third new edition, fully revised to date. xvi, 593 p. 369 il. O. London: E. & F. N. Spon, 1897.

Steam-heating problems.

697.5 O800

- ³⁰⁴⁹ Steam-heating problems; or, Questions, answers, and descriptions relating to steam-heating and steam-fitting, from The Engineering record. 233 p. 109 il. O. New York: Engineering record, 1891.

Pearce, Walter John.

698 P700

- ¹⁵¹³⁸ Painting and decorating. xvi,[2],312 p. 88 il. 34 pl. O. London: C. Griffin & Co., 1898.

700 FINE ARTS
701-709 GENERAL WORKS

Adeline, [Jules].

703 A229

¹⁵⁴⁰⁸ Adeline's art dictionary. Containing a complete index of all terms used in art, architecture, heraldry, and archæology. Translated from the French, and enlarged. vii,422 p. il. O. New York D. Appleton & Co., 1891.

Crane, Walter.

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⁹⁶¹⁰ The claims of decorative art. vi,[2],191 p. il. sq.O. Boston: Houghton, Mifflin, & Co., 1892.

Contents: The claims of decorative art. The architecture of art. Figurative art. Sculpture: from a decorator's point of view. Painting at the present day: from a decorator's point of view. On the structure and evolution of decorative pattern. Art and labour. Art and handicraft. The prospects of art under socialism. On the teaching of art. Design in relation to use and material. The importance of the applied arts, and their relation to common life. Art and commercialism. Art and social democracy. Imitation and expression in art. Art and industry.

Day, Lewis Foreman.

704 D33

⁹⁸⁸⁷ Some principles of every-day art: introductory chapters on the arts not fine. 2nd edition, revised. [6],148 p. 70 il. 1 pl. D. London: B. T. Batsford, 1894.

Miller, Fred.

704 M61

¹¹⁴¹³ The training of a craftsman. Illustrated by many workers in the art crafts. x,249 p. 161 il. O. New York: Truslove & Comba, 1898.

Contents: 1. The craftsman and nature. 2. Design and craftsmanship. 3. Metal work. Repoussé and fine metal-work. Wrought iron. 4. Jewellery. 5. Enamelling on metal. 6. Potters and painters. 7. Glass painters. 8. Wood carvers. 9. Bookbinders. 10. Women workers in the art crafts. 11. Surface decoration. 12. Decoration in relief. 13. Wall-papers and textiles. 14. The craftsman up-to-date and his outlook.

Morris, William.

704 M83

¹⁴³⁷⁷ Hopes and fears for art. Five lectures delivered in Birmingham, London, and Nottingham 1878-1881. Fifth edition. [2],218 p. 1 pl. D. London: Longmans, Green, & Co., 1898.

Contents: The lesser arts. The art of the people. The beauty of life. Making the best of it. The prospects of architecture in civilisation.

Ruskin, John.**704 R89**

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Contents: 1. Of wisdom and folly in art. 2. Of wisdom and folly in science. 3. The relation of wise art to wise science. 4. The power of modesty in science and art. 5. The power of contentment in science and art. 6. The relation to art of the science of light. 7. The relation to art of the sciences of inorganic form. 8. The relation to art of the sciences of organic form. 9. The story of the halcyon. 10. The heraldic ordinaries.

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Arts and Crafts Exhibition Society, London.**706.204 1**

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Contents: 1. Sanderson, T. J. Cobden-. Of art and life. 2. Lethaby, W. R. Of beautiful cities. 3. Crane, W. Of the decoration of public buildings. 4. Blomfield, R. Of public spaces, parks and gardens. 5. Ricardo, H. Of colour in the architecture of cities.

Ashbee, Charles Robert.**707 A819**

- ¹⁷⁰⁰⁰ A few chapters in workshop re-construction and citizenship. 165,[1] p. O. London: Guild and School of Handicraft, 1894.

Contents: 1. Some definitions towards an ideal. 2. On the need for the cultivation of the sense of beauty and the questionable wisdom of looking for this from the British middle class. 3. How can we "run" art at our polytechnics. 4. Decorative art from a workshop point of view. 5. An industrial dialogue between Mr. Archibald Pushington, M. P., and Mr. Thomas Trudge. 6. The honest endeavour of Timothy Thumbs, teacher and humanist. 7. On the higher aspects of technical education and the elementary teacher. 8. On the teaching of design and its bearing on workshop re-construction. 9. University Extension and the workshop—a problem and a policy. 10. The policy developed towards workshop reconstruction. 11. The relation of the architect towards workshop reconstruction. 12. On the possibility of a metropolitan school of architecture. 13. Where is the builder of ideas? 14. The art and technical instructor of to-day and the little citizen of the future. 15. On Jack's initiation into the citizenship.

Reber, Franz von.

709 R24

¹⁵⁸⁶⁷ History of mediæval art. Translated by Joseph Thatcher Clarke. xxxi,743 p. 422 il. O. New York: Harper & Brothers, 1897, c. 1886.

Conway, Sir William Martin.

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¹⁸⁷⁸⁷ Dawn of art in the ancient world. An archaeological sketch. viii,189 p. D. New York: Macmillan & Co., 1891.

Cook, Edward Tyas.

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¹⁸⁸⁴¹ Studies in Ruskin: some aspects of the work and teaching of John Ruskin. Second edition. xiv,304 p. il. 8 pl. 1 por. D. Orpington: G. Allen, 1891.

Perrot, Georges, & Chipiez, Charles.

L709.3 P42

¹⁷⁶⁴⁶ History of art in Sardinia, Judæa, Syria, and Asia Minor. From the French. Translated and edited by I. Gonino. 2 vol. il. pl. Q. London: Chapman & Hall, 1890.

Perrot, Georges, & Chipiez, Charles.

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¹⁸¹²¹ A history of art in Chaldæa & Assyria. From the French. Translated and edited by Walter Armstrong. 2 vol. il. pl. Q. London: Chapman & Hall, 1884.

Perrot, Georges, & Chipiez, Charles.

L709.355 P42

¹¹⁸⁹² History of art in Persia. From the French. xii,508 p. 254 il. 12 pl. Q. London: Chapman & Hall, 1892.

Perrot, Georges, & Chipiez, Charles.

L709.38 P42

¹⁷⁶⁴⁵ History of art in primitive Greece. Mycenaean art. From the French. 2 vol. il. pl. Q. London: Chapman & Hall, 1894.

Perrot, Georges, & Chipiez, Charles.

L709.39 P42

¹⁷⁶⁴⁴ History of art in Phœnicia and its dependencies. From the French. Translated and edited by Walter Armstrong. 2 vol. il. pl. Q. London: Chapman & Hall, 1885.

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L709.392 P42

¹¹⁵⁹¹ History of art in Phrygia, Lydia, Caria, and Lycia. From the French. xii,405 p. 283 il. Q. London: Chapman & Hall, 1892.

711 LANDSCAPE GARDENING

Parsons, Samuel.**L710.2 P25**

- ¹⁴⁷¹¹ Landscape gardening. Notes and suggestions on lawns and lawn planting — laying out and arrangement of country places, large and small parks, cemetery plots, and railway-station lawns — deciduous and evergreen trees and shrubs — the hardy border — bedding plants — rockwork, etc. xxii,329 p. il. 1 pl. Q. New York: G. P. Putnam's Sons, 1895.

Robinson, William.**710.2 R56**

- ¹⁸⁶⁸³ The English flower garden. Design and arrangement shown by existing examples of gardens in Great Britain and Ireland followed by a description of the best plants for the open-air garden and their culture. Sixth edition. xii,832 p. il. O. London: J. Murray, 1898.

Rose, Nils Jönsson-.**L710.2 R72**

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Amherst, Alicia M. T.**L710.9 A515**

- ⁹⁰⁹¹ A history of gardening in England. xvi,398 p. il. Q. London: B. Quaritch, 1895.

"Bibliography of works on English gardening", p. 323-389.

May, W. J.**716 M45**

- ¹⁰⁰⁴⁹ Greenhouse management for amateurs: descriptions of the best greenhouses and frames, ... ; particulars of the various methods of heating; illustrated descriptions of the most suitable plants, with general and special cultural directions; Second edition, revised and enlarged. [4],379 p. 128 il. D. London: L. U. Gill, [1897].

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- ¹⁶⁹⁹⁹ The wild garden; or, The naturalization and natural grouping of hardy exotic plants, with a chapter on the garden of British wild flowers. Fourth edition illustrated by Alfred Parsons. xx,304 p. il. 11 pl. pagged in, 1 pl. O. London: J. Murray, 1894.

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Statham, Henry Heathcote.**720.2 S797**

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Viollet-le-Duc, [Eugène Emmanuel].**720.3 V81**

¹⁶⁹⁹⁷ Dictionnaire de l'architecture française du XI^e au XVI^e siècle. 10 vol. il. por. O. Paris: vol. 1, 9, v^e A. Morel & C^{ie}, vol. 2-8, 10, A. Morel, 1867-1873.

Vol. 10 is index.

"Henri Sabine. Table analytique et synthétique ...", was published separately in 1889.

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Singleton, Esther, *editor*.**720.8 2**

¹⁶⁹⁸⁷ Turrets, towers, and temples. The great buildings of the world, as seen and described by famous writers. Edited and translated by Esther Singleton. xii,317 p. 48 pl. O. New York: Dodd, Mead & Co., 1899.

Fletcher, Banister, & Fletcher, Banister F.**720.9 F63**

⁷⁸⁷⁶ A history of architecture. . . . Being a comparative view of the historical styles, from the earliest period. Second edition, reprinted from the first. xv,[1],313 p. il. 115 pl. D. London: B. T. Batsford, 1896.

Mathews, Charles Thompson.**720.9 M42**

⁵⁹¹⁶ The story of architecture: an outline of the styles in all countries. xvi, 468 p. 1 pl. 175 il. O. New York: D. Appleton & Co., 1896.

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⁹²³² European architecture. A historical study. xxviii,578 p. 256 il. 10 pl. O. New York: Macmillan Co., 1896.

Viollet-le-Duc, Eugène Emmanuel.**721 V81**

- ³⁹⁰⁴ Rational building: being a translation of the article "Construction" in the Dictionnaire raisonné de l'architecture française, of M. Eugène-Emmanuel Viollet-le-Duc, by George Martin Huss. xii,367 p. 156 il. O. New York: Macmillan & Co., 1895.

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Perkins, Thomas.**723.5 P41**

- ¹⁸⁴⁸⁴ Handbook to Gothic architecture ecclesiastical and domestic for photographers and others. 223,[1] p. il. 1 pl. D. London: Hazell, Watson, & Viney, 1897.

Statham, Henry Heathcote.**724 S797**

- ¹⁷⁸¹⁶ Modern architecture. A book for architects and the public. x,281 p. 145 il. 1 pl. O. London: Chapman & Hall, 1897.

730-740 DECORATIVE ARTS**Bemrose, William.****L736 B42**

- ⁷⁵⁸¹ Manual of wood carving. With practical instructions for learners of the art, and original and selected designs. With an introduction by Llewellynn Jewitt. Twentieth edition. 72 p. il. 1 pl. sq.Q. London: Bemrose & Sons, [1862].

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- ³³¹⁷ The coin collector's manual, or Guide to the numismatic student in the formation of a cabinet of coins: comprising an historical and critical account of the origin and progress of coinage, . . . 2 vol. il. pl. D. London: G. Bell & Sons, 1876.

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- ⁴³³⁴ The pottery and porcelain of the United States: an historical review of American ceramic art from the earliest times to the present day. xvii,446 p. 222 il. 1 pl. Q. New York: G. P. Putnam's Sons, 1893.

Young, Jennie J.**738 Y8**

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Fortnum, Charles Drury Edward.

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¹⁰⁶ Maiolica. vii, 192 p. 82 il. O. [SOUTH KENSINGTON MUSEUM. Art handbooks.] London: Chapman & Hall, pref. 1875.

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739 L53

³³⁸⁵ Elementary metal work: a practical manual for amateurs and for use in schools. xvi, 111 p. 124 il. 1 pl. sq. O. New York: Macmillan & Co., 1894.

Day, Lewis Foreman.

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Meyer, Franz Sales.

740.2 M57

¹³⁵⁸⁴ A handbook of ornament. Third English edition, revised by Hugh Stannus. xvi, 548 p. il. O. London: B. T. Batsford, 1896.

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¹⁰⁸ Manual of design, compiled from the writings and addresses of Richard Redgrave by Gilbert R. Redgrave. viii, 173 p. 18 il. O. [SOUTH KENSINGTON MUSEUM. Art handbooks.] London: Chapman & Hall, pref. 1876.

Ruskin, John.

740.2 R89

⁶⁷⁸⁸ The elements of drawing in three letters to beginners. With an introduction by Charles Eliot Norton. Brantwood edition. xxxvi, [2], 380 p. 48 il. D. New York: Maynard, Merrill, & Co., c. 1893.

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Ward, James. 740.2 W21

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White, Gleeson, editor. 740.2 W58

¹¹⁰⁴⁷ Practical designing. A handbook on the preparation of working drawings. . . . [Second edition.] viii,327 p. il. 4 pl. D. London: G. Bell & Sons, 1894.

Contents: Millar, A. Carpet designing. Silver, A. Woven fabrics. Rix, W. P. Pottery. Carter, O. Tiles. Rathbone, R. Ll. B. Metal work. Image, S. Stained glass. White, G. Drawing for reproduction. Orrinsmith, H. Book-binding. Silver, A. Printed fabrics. —. Floorcloths. Haité, G. C. Wall papers.

Rouaix, Paul. L740.3 R75

¹⁷³²⁶ Dictionnaire des arts décoratifs à l'usage des artisans, des artistes, des amateurs et des écoles. [2],vii,1042,[2] p. 541 il. 1 pl. Q. Paris: Librairie Illustrée, [1885].

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⁹⁹¹⁹ The anatomy of pattern. Fourth edition, revised xi,56 p. il. 41 pl. D. (Text books of ornamental design, no. 1.) London: B. T. Batsford, 1896.

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Ward, James. 740.9 W21

¹²⁵³⁸ Historic ornament. Treatise on decorative art and architectural ornament. . . . 2 vol. il. pl. O. London: Chapman & Hall, 1897.

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MacCord, Charles William.**L744 M13**

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- ⁶²¹⁴ Encyclopedia of needlework. English edition. . . . [4], 578 p. 890 il. O. [18--].

Lefébure, Ernest.**746 L52**

- ⁵⁴⁰⁸ Embroidery and lace: their manufacture and history from the remotest antiquity to the present day. . . . Translated and enlarged, with notes, by Alan S. Cole. x, 326 p. 154 il. O. London: H. Grevel & Co., 1888.

Müntz, Eugène.**746 M92**

- ²⁵⁴ A short history of tapestry. From the earliest times to the end of the 18th century. Translated by Miss Louisa J. Davis. xvi, 399 p. 94 il. D. [Fine-art library.] London: Cassell & Co., 1885.

Edis, Robert William.**747 E23**

- ¹²⁷⁵ Decoration & furniture of town houses. A series of Cantor lectures delivered before the Society of Arts, 1880, amplified and enlarged. xvi, 292 p. il. 29 pl. O. New York: Scribner & Welford, 1881.

Day, Lewis Foreman.**748 D33**

- ¹⁰⁶⁵⁸ Windows. A book about stained & painted glass. x, 415 p. il. O. London: B. T. Batsford, 1897.

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- ⁶⁹¹⁵ Stained glass as an art. . . . xx, 173 p. il. 21 pl. Q. London: Macmillan & Co., 1896.

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- ⁶⁹⁵ Hints on household taste in furniture, upholstery and other details. Third edition (revised). xviii, 306 p. il. 32 pl. O. London: Longmans, Green, & Co., 1872.

Pollen, John Hungerford, *M. A.* 1820-.**749 P76**

- ¹⁰⁵ Ancient and modern furniture and woodwork. vii, 143 p. 62 il. O. [SOUTH KENSINGTON MUSEUM. Art handbooks.] London: Chapman & Hall, pref. 1875.

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Champlin, John Denison, Jr., L750.3 C35

¹⁰⁴¹ & **Perkins, Charles C.,** *editors.*

Cyclopedia of painters and painting. 4 vol. il. pl. por. sq. Q.
New York: C. Scribner's Sons, 1886-1887.

Large paper edition, in 500 copies.

Bryan, Michael. L750.92 B84

¹⁸⁶³² Dictionary of painters and engravers, biographical and critical.
New edition, revised and enlarged, edited by Robert Edmund
Graves. 2 vol. Q. London: G. Bell & Sons, 1886-1895.

Vol. 2 edited by Robert Edmund Graves and Walter Armstrong.

Hodson, James Shirley. 760.2 H66

¹⁰¹¹ An historical and practical guide to art illustration, in connection
with books, periodicals, and general decoration. . . . [8], 224
p. il. 18 pl. 3 por. 1 pl. of por. 1 map, 1 table. O. London:
Sampson Low, . . . , & Rivington, 1884.

Ruskin, John. 760.4 R89

⁶⁷⁸⁸ Ariadne Florentina. Six lectures on wood and metal engraving,
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With an introduction by Charles Eliot Norton. Brantwood edi-
tion. xviii, 298 p. 16 pl. 1 table. D. New York: C. E. Merrill
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¹⁷⁴⁸⁴ Engravings and their value: a guide for the print collector.
Second edition. Revised and enlarged. [6], 572, [4] p. D.
London: L. U. Gill, 1897.

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cipal engravers, with the prices realised at auction for a selection of their works,"
p. 95-572.

770 PHOTOGRAPHY

Abney, William de Wiveleslie. 770.2 A153

¹²⁸⁶² A treatise on photography. Ninth edition. xvi, 374 p. 116 il.
D. [Text-books of science.] London: Longmans, Green, &
Co., 1897.

Brothers, Alfred. 770.2 B79

¹⁸⁶²⁰ Photography: its history, processes, apparatus, and materials.
Comprising working details of all the more important methods.
xiii, 364 p. 122 il. 24 pl. O. London: C. Griffin & Co., 1892.

Burton, William Kinninmond, & Pringle, Andrew. 770.2 B95
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 17681 Practical guide to photography. Sixth edition ... revised and enlarged. viii, 288 p. 50 il. D. London 1898.

Wall, E. J. 770.3 W15
 9198 The dictionary of photography for the amateur and professional photographer. Revised and brought up to date by Thos. Bolas. Seventh edition, enlarged. iv, 632 p. 122 il. D. London: Hazell, Watson, & Viney, 1897.

Wilson, Edward Livingstone. 770.3 W69
 6251 Wilson's cyclopædic photography. A complete hand-book of the terms, processes, formulæ and appliances available in photography, arranged in cyclopædic form for ready reference. 453 p. 247 il. sq. O. London: Dawbarn & Ward, c. 1894.

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 Vol. 2-5 edited by C. W. Canfield; vol. 7-8, by W. I. Lincoln Adams; vol. 10-, by Walter E. Woodbury.

Yearbook. 770.52 2
 5630 The Yearbook of photography and amateur's guide. [Vol. 30.] 1889. Continued from [vol. 38]. 1897. il. pl. D. London [1888-].
 1889 edited by Thomas Bolas; 1897-, by E. J. Wall.
 1889 published under the title: The Yearbook of photography and photographic news almanac.

Watts, W. A. 770.8 4
 18076 The photographic reference book. Hints, information, and methods concerning all kinds of photographic work and recreation. Compiled by W. A. Watts, under the direction of Henry Sturmey. 300 p. il. O. London: Iliffe & Son, [1896].

Werge, John. 770.9 W49
 17687 The evolution of photography. With a chronological record of discoveries, inventions, etc., contributions to photographic literature, and personal reminiscences extending over forty years. viii, 312 p. 4 pl. of por. D. London: Piper & Carter, 1890

Meldola, Raphael.**771.1 M48**

¹⁴³⁹² The chemistry of photography. xiv,[2],382 p. 14 il. D. (Nature series.) London: Macmillan & Co., 1891.

Andrews, John.**778.22 A567**

¹⁷⁶⁰⁸ Studies in photography. xiii,202 p. il. 6 pl. D. London: Hazell, Watson, & Viney, pref., 1892.

Pringle, Andrew.**778.2578 P93**

¹⁸⁰⁹⁵ Practical photo-micrography: by the latest methods. 183,ix p. 42 il. 7 pl. O. [Scovill's photographic series.] New York: Scovill & Adams Co., 1890.

780 MUSIC**Champlin, John Denison, Jr.,****L780.3 C35**⁸⁵³**& Athorp, William Foster, editors.**

Cyclopedia of music and musicians. 3 vol. il. por. table. Q. New York: C. Scribner's Sons, 1888-1890.

Special edition, with etchings, in 50 copies.

Grove, Sir George, editor.**780.3 G91**¹⁵⁷

A dictionary of music and musicians (A. D. 1450-1889) by eminent writers, English and foreign. With appendix, edited by J. A. Fuller Maitland, and index by Mrs. Edmond Wodehouse. 4 vol. and index. il. O. London: Macmillan & Co., 1890-94.

Riemann, Hugo.**780.3 R44**⁴²¹⁶

Dictionary of music. New edition, with many additions by the author. Translated by J. S. Shedlock. [2],895 p. il. O. London: Augener & Co., [1893].

Parry, Charles Hubert Hastings.**780.9 P24**¹⁷⁷²⁵

The evolution of the art of music. x,342 p. D. (International scientific series, vol. 76.) New York: D. Appleton & Co., 1896.

Wallaschek, Richard.**780.91 W15**¹¹⁵²³

Primitive music. An inquiry into the origin and development of music, songs, instruments, dances, and pantomimes of savage races. With musical examples. xi,326 p. 9 p. of music. O. London: Longmans, Green, & Co., 1893.

"Authorities quoted", p. 297-321.

Brown, James Duff, & Stratton, Stephen S.**780.92 B81**¹²⁵⁸⁷

British musical biography: a dictionary of musical artists, authors and composers, born in Britain and its colonies. [4],ii,[2],462, [2] p. O. Birmingham: S. S. Stratton, 1897.

Paine, John Knowles, Thomas, Theodore, & Klausner, Karl, editors. **L780.92 P16**
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Famous composers and their works. 4 vol. paged continuously ;
 vol. 1 : xii, 1-242 p. ; vol. 2 : [4], 243-496 p. ; vol. 3 : [4], 497-732
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 Co., c. 1891.

Thomas, Theodore, editor. **L780.92 P161**

12351 Famous composers and their works. Musical compositions.
 2 vol. paged continuously ; vol. 1 : viii, 1-240 p. ; vol. 2 : viii, 241-
 472 p. por. Q. Boston : J. B. Millet Co., c. 1891.

Published to accompany Paine, J. K., Thomas, T., & Klausner, K., *ed.* Famous
 composers and their works.

790 AMUSEMENTS

Hopkins, Albert Allis. **L793 H77**

7957 Magic, stage illusions and scientific diversions, including trick
 photography. With an introduction by Henry Ridgely Evans.
 xii, 556 p. 400 il. 1 pl. Q. New York : Munn & Co., 1897.

"Bibliography of natural magic and prestidigitation. Compiled, with notes, by Hen-
 ry Ridgely Evans", p. 537-550.

800 LITERATURE

- Posnett, Hutcheson Macaulay.** 801 P84
⁶⁴⁰ Comparative literature. x,402 p. D. (International scientific series, vol. 54.) New York: D. Appleton & Co., 1886.
- Bartlett, John.** 808.8 B28
²³⁵ Familiar quotations: a collection of passages, phrases, and proverbs traced to their sources in ancient and modern literature. Ninth edition. xv,1158 p. O. Boston: Little, Brown, & Co., 1892.
- Belton, John Devoe.** 808.8 B41
⁷⁵⁸ A literary manual of foreign quotations, ancient and modern, with illustrations from American and English authors and explanatory notes. vi,249 p. O. New York: G. P. Putnam's Sons, 1892.
- Duyckinck, Evert Augustus,** L810.92 D95
¹⁰⁹² & **Duyckinck, George L.**
 Cyclopædia of American literature; embracing personal and critical notices of authors, and selections from their writings, from the earliest period to the present day. 2 vol. il. por. Q. New York: C. Scribner, 1855-1856.
 Vol. 1 printed in 1856.
- Brooke, Stopford Augustus.** 820.9 B79
¹⁸⁰²³ English literature from the beginning to the Norman conquest. ix,338 p. D. New York: Macmillan Co., 1898.
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- Saintsbury, George.** 820.9 S157
¹⁷¹⁴² A history of Elizabethan literature. [Second edition.] xiv, 471 p. D. [History of English literature.] London: Macmillan & Co., 1898.
- Saintsbury, George.** 820.9 S1571
¹⁷¹⁸⁸ A history of nineteenth century literature (1780-1895). xii, 477 p. D. [History of English literature.] London: Macmillan & Co., 1896.
- Taine, Hippolyte Adolphe.** 820.9 T13
¹²³³³ History of English literature. Translated from the French by H. Van Laun. [New edition.] 4 vol. O. Edinburgh: Edmonston & Douglas, 1873-1874.

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¹⁸⁸⁷⁷ A history of German literature. Translated from the third German edition by Mrs. F. C. Conybeare. Edited by F. Max Müller. 2 vol. O. New York: C. Scribner's Sons, 1886.
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¹⁸⁰²⁴ Manual of the history of French literature. Authorized translation by Ralph Derechef. xxvii,[2],569 p. 16 por. O. New York: T. Y. Crowell & Co., c. 1898.
- Kelly, James Fitzmaurice.** 860.9 K29
¹⁷¹⁸⁶ A history of Spanish literature. ix,423 p. D. New York: D. Appleton & Co., 1898.
 "Bibliographical note", p. 399-412.
- Teuffel, Wilhelm Sigmund.** 870.9 T29
¹²⁸⁸ History of Roman literature. Revised and enlarged by Ludwig Schwabe. Authorized translation from the fifth German edition, by George C. W. Warr. 2 vol. O. London: G. Bell & Sons, 1891-1892.
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¹⁷¹³¹ A critical history of the language and literature of antient Greece. Second edition. 5 vol. map. O. London: Longman, ... , & Longmans, 1854-1859.
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900 HISTORY AND GEOGRAPHY

901-909 HISTORY: GENERAL WORKS

Larned, Josephus Nelson.**L903 P300**

⁵⁸¹ History for ready reference from the best historians, biographers, and specialists. Their own words in a complete system of history 5 vol. maps, tables. Q. Springfield, Mass.: C. A. Nichols Co., 1895.

Bouillet, Marie Nicolas.**L903 P301**

¹⁷⁴⁰ Dictionnaire universel d'histoire et de géographie. Contenant: 1° l'histoire proprement dite: . . . ; 2° la biographie universelle: . . . ; 3° la mythologie: . . . ; 4° la géographie ancienne et moderne. . . . Refondu sous la direction de L.-G. Gourraigne. Trente-et-unième édition. x,2101 p. O. Paris: Librairie Hachette & C^{ie}, [1893].

Heilprin, Louis.**903 P302**

⁶⁷⁰⁰ The historical reference book. Comprising a chronological table of universal history, a chronological dictionary of universal history, a biographical dictionary. With geographical notes Fourth edition, with a supplement revised to 1893. xi,[2],574 p. O. New York: D. Appleton & Co., 1895.

Hinsdale, Burke Aaron.**907 P400**

⁶¹³⁹ How to study and teach history. With particular reference to the history of the United States. Revised edition, with additional matter, including a bibliographical index. xxiii,353 p. D. (International education series, vol. 25.) New York: D. Appleton & Co., 1894.

Mace, William Harrison.**907 P700**

⁸²²⁶ Method in history. For teachers and students. xvii,311 p. D. Boston, U. S. A.: Ginn & Co., 1897.

Contents: General nature of history. Organization of the periods of American history. The elementary phases of history teaching.

Freeman, Edward Augustus.**909 F87**

²⁹¹⁷ General sketch of history. Adapted for American students. New edition, revised, xxxi,400 p. 16 maps. S. (Freeman's historical course for schools, vol. 1.) New York: H. Holt & Co., c. 1876.

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¹⁷⁸³⁷ Manuel d'histoire, de généalogie et de chronologie de tous les états du globe, depuis les temps les plus reculés jusqu'à nos jours, 3 vol. tables. Q. Leide: E. J. Brill, 1888-1893.

Irving, Joseph.**909.8 A613**

²¹⁰² The annals of our time: a diurnal of events, social and political, home and foreign, from the accession of Queen Victoria, June 20, 1837, to the Peace of Versailles, February 28, 1871. ix,[6],1033, [1] p. O. London: Macmillan & Co., 1890.

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For continuation see Fyfe, H. H. Annals of our time.

Fyfe, H. Hamilton.**909.8 A6131**

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Contents: Part 1. June 21, 1887, to January 1, 1891. Part 2. 1891.

For preceding volumes see Irving, J. Annals of our time.

910.1-910.9 GEOGRAPHY: GENERAL WORKS

Reclus, Elisée.**L910.2 0300**

⁵⁷⁹⁹ The earth and its inhabitants. Europe. Edited by E. G. Ravenstein. 5 vol. il. pl. maps. Q. New York: D. Appleton & Co., 1883.

Contents: Vol. 1. Greece, Turkey in Europe, Rumania, Servia, Montenegro, Italy, Spain, and Portugal. Vol. 2. France and Switzerland. Vol. 3. Austria-Hungary, Germany, Belgium, and the Netherlands. Vol. 4. The British Isles. Vol. 5. The north-east Atlantic, islands of the north Atlantic, Scandinavia, European islands of the Arctic Ocean, Russia in Europe.

Vol. 5 edited by E. G. Ravenstein and A. H. Keane.

Reclus, Elisée.**L910.2 0301**

⁵⁷⁹³ The earth and its inhabitants. Asia. Edited by E. G. Ravenstein and A. H. Keane. 4 vol. il. pl. maps. Q. New York: D. Appleton & Co., 1884-1885.

Contents: Vol. 1. Asiatic Russia: Caucasia, Aralo-Caspian basin, Siberia. Vol. 2. East Asia: Chinese Empire, Corea, and Japan. Vol. 3. India and Indo-China. Vol. 4. South-western Asia.

Vol. 2-4 edited by A. H. Keane.

Reclus, Elisée.**L910.2 0302**

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Contents: Vol. 1. North-east Africa. Vol. 2. North-west Africa. Vol. 3. West Africa. Vol. 4. South and east Africa.

Reclus, Elisée.**L910.2 0303**

- ⁵⁷⁹⁵ The earth and its inhabitants. North America. Edited by A. H. Keane. 3 vol. il. pl. maps. Q. New York: D. Appleton & Co., 1890-1893.

Contents: Vol. 1. British North America. Vol. 2. Mexico, Central America, West Indies. Vol. 3. The United States.

Reclus, Elisée.**L910.2 0304**

- ⁵⁷⁹⁶ The earth and its inhabitants. South America. Edited by A. H. Keane. 2 vol. il. pl. maps. Q. New York: D. Appleton & Co., 1894-1895.

Contents: Vol. 1. The Andes regions. Vol. 2. Amazonia and La Plata.

Reclus, Elisée.**L910.2 0305**

- ⁵⁷⁹⁷ The earth and its inhabitants. Oceanica. Edited by A. H. Keane. vii, 512 p. 226 il. 38 pl. 5 maps. Q. New York: D. Appleton & Co., 1890.

Annuaire.**L910.3 1**

- ¹²⁴⁹⁸ Annuaire international des transports, du commerce et de l'industrie. International directory of transports, commerce and industry. Internationales Jahrbuch für Transport, Handel und Industrie. Anuario internacional de los transportes, del comercio y de la industria. (1897.) [6], 4352 p. Index. lxiii, xi, 220, xi, 220, xi, 248, xi, 220 p. Q. Bruxelles: A. Michel & Co., [1897].

[Deschamps, Pierre.]**910.3 N001**

- ²¹²² Dictionnaire de géographie ancienne et moderne à l'usage du libraire et de l'amateur de livres, contenant: 1° Les noms anciens, grecs et latins, de la décadence latine et de la renaissance, ... , avec leur signification actuelle en langues vulgaires; 2° Les recherches ... sur les origines de la typographie dans toutes les villes, bourgs, abbayes d'Europe, jusqu'au XIX^e siècle exclusivement; 3° Un dictionnaire français-latin des noms de lieux, destiné à servir de table. Par Un Bibliophile. viii p. 796 col. O. Paris: Firmin Didot Frères, Fils & C^{ie}, 1870.

Published as supplement to Brunet, J. G. Manuel du libraire. Un Bibliophile is pseudonym for Pierre Deschamps.

Thomas, Joseph.

L910.3 P500

- ⁴⁴⁷ Lippincott's Gazetteer of the world. A complete pronouncing gazetteer or geographical dictionary of the world. New revised edition, amplified by a series of statistical tables, 2894 p. Q. Philadelphia: J. B. Lippincott Co., 1895.

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L910.3 P501

- ¹⁰¹⁷ Longmans' gazetteer of the world. Edited by George G. Chisholm. xii, 1788 p. Q. London: Longmans, Green, & Co., 1895.

Ritter, Karl.

L910.3 P502

- ²⁹⁷⁹ Ritters geographisch-statistisches Lexikon, Achte, ... umgearbeitete, vermehrte ... Auflage. Unter der Redaktion von Johs. Penzler. 2 vol. Q. Leipzig: O. Wigand, 1895.

Taylor, Isaac.

910.3 P503

- ³²⁷⁸ Names and their histories, alphabetically arranged as a handbook of historical geography and topographical nomenclature. v, [3], 392 p. D. London: Rivington, Percival & Co., 1896.

Strachey, Richard.

910.7 0800

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Nordenskiöld, Adolf Erik.

Ag10.9 0900

- ³²⁴ Facsimile-atlas to the early history of cartography, with reproductions of the most important maps printed in the xv and xvi centuries. Translated from the Swedish original by Johan Adolf Ekelöf and Clements R. Markham. [2], iv, [4], 141 p. 84 il. 51 maps. F. Stockholm 1889.

Beazley, Charles Raymond.

910.9 P700

- ⁷⁵³⁰ The dawn of modern geography. A history of exploration and geographical science, from the conversion of the Roman Empire to A. D. 900, with an account of the achievements and writings of the early Christian, Arab and Chinese travellers and students. xvi, 538 p. 13 pl. 10 maps. O. London: J. Murray, 1897.

"Additional note. I. On the manuscripts of the principal texts. II. On the editions of the principal texts", p. 517-530.

Greely, Adolphus Washington.

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- ¹²³⁹⁹ Explorers and travellers. 373 p. il. 3 pl. 4 por. O. (Men of achievement.) New York: C. Scribner's Sons, 1893.

Winsor, Justin.

910.9218 W73

¹⁷¹⁵⁶ Christopher Columbus and how he received and imparted the spirit of discovery. xi, 674 p. il. O. Boston: Houghton, Mifflin & Co., 1891.

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Bunbury, Edward Herbert.

910.93 N900

²⁴³² A history of ancient geography among the Greeks and Romans from the earliest ages till the fall of the Roman Empire. Second edition. 2 vol. maps. O. London: J. Murray, 1883.

911-912 ATLASES AND MAPS

Spruner [von Merz], Karl.

Ag11 L500

²²⁰³ Hand-Atlas zur Geschichte Asiens, Afrika's, Amerika's und Australiens. Zweite Auflage. [6], 12 p. 18 maps. sq. F⁴. Gotha: J. Perthes, 1855.

Spruner [von Merz], Karl.

Ag11 N100

²²⁰² Spruner-Menke Hand-Atlas für die Geschichte des Mittelalters und der neueren Zeit. Dritte Auflage von Dr. K. v. Spruners Hand-Atlas, neu bearbeitet von Dr. Th. Menke. [6], 42 p. 90 maps. sq. F⁴. Gotha: J. Perthes, 1880.

Freeman, Edward Augustus.

911 0001

²²⁵² The historical geography of Europe. Second edition. 2 vol. maps. O. London: Longmans, Green & Co., 1882.

Vol. 1: Text; vol. 2: Maps.

Droysen, Gustav.

Ag11 0500

²¹⁸⁵ Professor G. Droysens allgemeiner historischer Handatlas ... mit erläuterndem Text. Ausgeführt von der geographischen Anstalt von Velhagen und Klasing in Leipzig, unter Leitung von Dr. Richard Andree. [4], 92 p. 88 p. of maps. F⁸. Bielefeld: Velhagen & Klasing, 1886.

Labberton, Robert Henlopen.

Lg11 0600

²⁵⁴⁰ New historical atlas and general history. xvi, 213 p. 71 maps. Q. London: Macmillan & Co., 1890.

Smith, William, LL. D., & Grove, Sir George, editors. **Ag11.3 N400**

⁷²⁶⁴ Dr. William Smith's ancient atlas. An atlas of ancient geography, biblical & classical. To illustrate the Dictionary of the Bible and the classical dictionaries. The biblical maps from recent surveys, and the classical maps drawn by Dr. Charles Müller. [6], 26 p. 43 maps. F⁶. London: J. Murray, 1874.

Kiepert, Heinrich.**L911.3 P200**

- ³¹⁷⁷ Atlas antiquus. Twelve maps of the ancient world for schools and colleges. Eleventh edition, revised and enlarged. [4], 27 p. 12 maps. F⁴. (Students' series.) Boston: Leach, Shewell, & Sanborn, c. 1892.

Mac Coun, Townsend.**911.73 P200**

- ²⁹¹⁶ An historical geography of the United States. Revised edition. vi, [2], 48 p. 23 pl. of maps. sq. D. New York: Silver, Burdett & Co. 1892.

Chisholm, George Goudie, & Leete, C. H., editors.**L912 O900**

- ²⁶⁸⁸ Longmans' new atlas, political and physical Engraved by Edward Stanford iv, 31 p. 50 maps. Q. New York: Longmans, Green, & Co., 1892.

Bartholomew, John [George].**L912 O901**

- ²⁶⁷⁷ The library reference atlas of the world. With general index to 100,000 places. [6], 209 p. 84 maps. F⁴. London: Macmillan & Co., 1890.

Bartholomew, John George.**L912 O902**

- ³⁸⁷⁴ Atlas of commercial geography, illustrating the general facts of physical, political, economic, and statistical geography, on which international commerce depends. With introductory notes by Hugh Robert Mill. vii, [1] p. 25 maps. sq. F. Cambridge: University Press, 1889.

Stieler, Adolph.**L912 P100**

- ³¹⁸⁷ Adolph Stieler's Handatlas über alle Theile der Erde und über das Weltgebäude. [7], 201 p. 95 maps. F⁴. Gotha: J. Perthes, [1891].

Rand, McNally & Co., publishers.**A912 P200**

- ⁸⁹⁴ Rand, McNally & Co.'s indexed atlas of the world, ... with historical, descriptive, and statistical matter Accompanied by a new and original compilation forming a ready reference index, 581 p. maps, tables. F⁴. Chicago 1892.

Appleton & Co., D., publishers.**L912 P201**

- ³¹⁸⁶ The library atlas of modern geography: ... , with a full gazetteer and indexes and ... descriptive text based on the results of the latest censuses. [228], 109 p. il. 103 maps. F⁴. New York 1895.

Stanford, Edward, *publisher.*

A912 P300

- ⁴¹⁴⁸ Stanford's London atlas of universal geography, exhibiting the physical and political divisions of the various countries of the world. . . . Second edition, revised and enlarged. [10], 29 p. 100 maps. F°. London 1896.

Johnston, Alexander Keith.

A912 P400

- ⁴¹⁴⁸ The royal atlas of modern geography, exhibiting, . . . the present condition of geographical discovery and research With additions and corrections to the present date by T. B. Johnston. With a special index to each map. A new edition. viii, [2] p. 57 maps. F°. Edinburgh: W. & A. K. Johnston, 1896.

Langhans, Paul.

L912 P700

- ¹¹⁶⁸⁸ Deutscher Kolonial-Atlas. Unpaged. 30 maps. F°. Gotha: J. Perthes, 1897.

Smith, Benjamin Eli, *editor.*

L912 P701

- ¹¹⁶⁹¹ The Century atlas of the world. Prepared under the superintendence of Benjamin E. Smith. [4], xxx, [2], 382 p. il. 117 maps. F. New York: Century Co., c. 1897.

Cram, George F., *publisher.*

A912 P800

- ¹⁰⁸⁰⁰ Cram's standard American railway system atlas of the world. Accompanied with a complete and simple index of the United States 590, 39 p. il. F°. Chicago: G. F. Cram, 1898.

U. S. A. War Department.

L912.7291 P701

- ¹¹⁷⁸⁹ *Adjutant General's Office. Military Information Division.*
Military map of the island of Cuba. Prepared in the War Department, Adjutant General's Office, Military Information Division, from the latest official sources. 4 maps. sq. F. N. Y. J. Bien & Co., 1897.

U. S. A. War Department.

912.7295 P800

- ¹¹⁷⁹¹ *Adjutant General's Office. Military Information Division.*
Military map, island of Puerto Rico, 1898. 60.8x82 cm. sq. O. N. Y.: J. Bien & Co., [1898].

Bien & Co., Julius, *publishers.*

L912.914 P800

- ¹¹⁷⁹⁰ Map of Philippine Islands and adjacent seas. From material of the English and Batavian governments 1898. 109.5x63.5 cm. nar. Q. New York c. 1898.

913 ANTIQUITIES

Ely, Talfourd.**913 P001**

⁹⁰⁸² Manual of archæology. . . . xii,272 p. 113 il. 1 pl. O. New York: G. P. Putnam's Sons, 1890.

"Books recommended", at the beginning of each chapter.

920 BIOGRAPHY

Cates, William Leist Redwin.**L920.01 C28**

¹⁷¹ A dictionary of general biography. Third edition, . . . completed to the present time. viii,1484 p. O. London: Longmans, Green, & Co., 1881.

Chambers's biographical dictionary.**920.01 C35**

¹⁸³⁰⁰ Chambers's biographical dictionary. The great of all times and nations. Edited by David Patrick and Francis Hindes Groome. 1002 p. O. Philadelphia: J. B. Lippincott Co., 1898.

Gubernatis, Angelo de.**L920.01 G93**

⁸⁷²⁸ Dictionnaire international des écrivains du jour. 3 vol. Q. Florence: L. Niccolai, 1890-1891.

Vol. 1 published in 1891.

Hoefler, Ferdinand, *editor*.**920.01 H67**

¹⁸⁹⁰ Nouvelle biographie générale depuis les temps les plus reculés jusqu'à nos jours, avec les renseignements bibliographiques et l'indication des sources à consulter: publiée par MM. Firmin Didot Frères. 46 vol. in 23. O. Paris: Firmin Didot Frères, Fils & C^{ie}, 1855-1885.

Vol. 1 published in 1862.

Men.**920.01 M52**

¹⁷³⁶ Men and women of the time. A dictionary of contemporaries. Fourteenth edition, revised and brought down to the present time by Victor G. Plarr. vii,[2],986 p. O. London: G. Routledge & Sons, 1895.

Michaud, [Joseph François, & Michaud, L. G.], *editors*. **L920.01 M58**

⁸⁰⁰⁰ Biographie universelle (Michaud) ancienne et moderne, Nouvelle édition, . . . revue, . . . ; ouvrage rédigé par une société de gens de lettres et de savants. 45 vol. Q. Paris: Madame C. Desplaces, 1854-[1857].

Phillips, Lawrence Barnett.**920.01 P54**

- ¹⁷² The dictionary of biographical reference, containing over one hundred thousand names, together with a classed index of the biographical literature of Europe and America. New edition, revised, ... with supplement to date, by Frank Weitenkamp. xi,[2],1038 p. O. Philadelphia: Gebbie & Co., 1889.

Pratt, Alfred T. Camden, editor.**L920.01 P88**

- ¹⁰⁵⁴⁷ People of the period. Being a collection of the biographies of upwards of six thousand living celebrities. 2 vol. Q. London: N. Beeman, 1897-[1898].

Sanders, Lloyd Charles, editor.**920.01 S215**

- ⁴⁶¹ Celebrities of the century. Being a dictionary of men and women of the nineteenth century. vi,[2],1077 p. O. London: Cassell & Co., 1887.

Thomas, Joseph.**L920.01 T36**

- ⁴⁴⁸ Universal pronouncing dictionary of biography and mythology. New edition, ... enlarged. [4],xii,2550 p. Q. Philadelphia: J. B. Lippincott Co., 1895.

Vapereau, Gustave.**L920.01 V41**

- ¹⁰⁸⁰ Dictionnaire universel des contemporains, contenant toutes les personnes notables de la France et des pays étrangers, Sixième édition ... augmentée. [2],iii,[1],1629 p. Q. Paris: Librairie Hachette & C^{ie}, 1893.
 ——— Supplément [4],103 p. Q. Paris: Librairie Hachette & C^{ie}, 1895.

Bound together.

Vapereau, Gustave.**L920.01 V411**

- ¹⁷⁹⁸⁴ Dictionnaire universel des littératures. Contenant, I, des notices sur les écrivains de tous les temps et de tous les pays ... ; II, la théorie et l'histoire des différents genres de poésie et de prose, III, la bibliographie générale et particulière, Seconde édition, revue et augmentée d'un supplément. xvi,2096,25 p. Q. Paris: Hachette & C^{ie}, 1884.

Who's who.**920.01 W62**

- ¹²⁴²² Who's who? Continued from vol. 50. 1898. D. London 1898-.

Edited by Douglas Sladen.

Also called New issue, vol. 2-.

Smith, William, LL.D.**920.03 S664**

- ⁸⁸⁰⁹ Dictionary of Greek and Roman biography and mythology. 3 vol. il. O. London: Taylor, Walton, & Maberly, 1849-1851.

Boase, Frederic.**L920.042 B63**

¹²⁵⁸¹ Modern English biography containing many thousand concise memoirs of persons who have died since the year 1850, with an index of the most interesting matter. Vol. 1-. Q. Truro: for the author, 1892-.

Only 250 copies printed.

Dictionary.**920.042 D56**

¹¹⁸⁹ Dictionary of national biography. Continued from vol. 1. O. New York: Macmillan & Co., 1885-.

Vol. 1-21 edited by Leslie Stephen; vol. 22-26, by Leslie Stephen and Sidney Lee; vol. 27-, by Sidney Lee.

Sharp, Robert Farquharson.**920.042 S531**

¹⁷¹¹³ A dictionary of English authors, biographical and bibliographical. Being a compendious account of the lives and writings of 700 British writers from the year 1400 to the present time. Second edition, with list of errata. vi,2,310 p. O. London: G. Redway, 1898.

Interleaved.

Munich. Königliche Akademie der Wissenschaften.**920.043 M92**

¹⁰⁹¹ Allgemeine deutsche Biographie. Auf Veranlassung ... seiner Majestät des Königs von Bayern ... herausgegeben durch die Historische Commission bei der Königl. Akademie der Wissenschaften. Continued from vol. 1. O. Leipzig: Duncker & Humblot, 1875-.

Vol. 1-edited by R. von Liliencron and F. X. Wegele.

Glaeser, Ernest, editor.**L920.044 G45**

¹³²² Biographie nationale des contemporains, rédigée par une société de gens de lettres. 4,834 p. Q. Paris: Glaeser & C^{ie}, 1878.

Brussels. Académie royale des sciences,**920.0493 B83**

²²⁰⁹ des lettres et des beaux-arts.

Biographie nationale, publiée par l'Académie royale des sciences, des lettres et des beaux-arts de Belgique. Vol. 1-. O. Bruxelles 1866-.

Appleton's cyclopædia.**L920.07 A649**

¹⁷⁷ Appleton's cyclopædia of American biography. Edited by James Grant Wilson and John Fiske. 6 vol. il. por. Q. New York: D. Appleton & Co., 1894.

Who's who in America.**920.07 W62**

¹⁷⁹⁰⁸ Who's who in America. A biographical dictionary of living men and women of the United States. 1899-1900. Edited by John W. Leonard. xxxii,822 p. O. Chicago: A. N. Marquis & Co., c. 1899.

Canadian men and women.

920.071 M82

- ¹⁸¹⁵⁹ The Canadian men and women of the time: a hand-book of Canadian biography. Edited by Henry James Morgan. First edition. xii,1117,[1] p. D. Toronto: W. Briggs, 1898.

National cyclopædia.

L920.073 N21

- ⁸¹⁴⁹ The National cyclopædia of American biography. Being the history of the United States as illustrated in the lives of the founders, builders, and defenders of the Republic, and of the men and women who are doing the work and moulding the thought of the present time. Edited by distinguished biographers, selected from each state, Continued from vol. 1. il. por. Q. New York: J. T. White & Co., 1892-.

Vol. 1 was published in 1893.

Mackail, John William.

920.159 M19

- ¹⁷⁹³⁰ The life of William Morris. New impression. 2 vol. pl. por. O. London: Longmans, Green & Co., 1899.

Wilson, James Grant, *editor*.

923.173 W69

- ¹²³²⁰ The presidents of the United States. 1789-1894. By John Fiske, . . . , and others. xii,526 p. il. 23 por. 23 facsim. O. New York: D. Appleton & Co., 1894.

Reprinted from *Appleton's cyclopædia of American biography*.

· 929 GENEALOGY AND HERALDRY

Burke, Sir [John] Bernard.

L929.72 B91

- ¹⁰³⁶⁷ A genealogical and heraldic dictionary of the peerage and baronetage, together with memoirs of the privy councillors and knights. By Sir Bernard Burke. Edited by his son [Henry Farnham Burke]. Sixtieth edition. [2],cxxxiii,1838,[2] p. il. Q. London: Harrison & Sons, 1898.

Hulme, Frederic Edward.

929.9 H87

- ¹²⁴²⁰ The flags of the world: their history, blazonry, and associations. From the banner of the crusader to the burgee of the yachtsman; flags national, colonial, personal; the ensigns of mighty empires; the symbols of lost causes. v,152 p. 26 pl. D. London: F. Warne & Co., [1897].

930 ANCIENT HISTORY

Maspéro, Gaston. 932 O700

¹²¹⁶ Egyptian archæology. Translated from the French by Amelia B. Edwards. Second edition, revised. . . . xx,373 p. 299 il. O. London: H. Grevel & Co., 1889.

Petrie, William Matthew Flinders. 932 P600

¹⁶⁵⁵⁴ A history of Egypt. . . . [Vol. 1-.] il. D. London: Methuen & Co., 1897-.

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Green, John Richard.**942 N700**

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Lucas, Charles Prestwood.**942 0800**

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Low, Sidney James, & Pulling, F. S., editors.**942 P704**

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 "List of books consulted", p. 386-388.

James, Henry Evan Murchison.**951.54 O700**

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Griffis, William Elliot.**952 P001**

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Schweinfurth, Georg.**966 N100**

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Winsor, Justin, *editor*.

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Contents: Vol. 1. Aboriginal America. Vol. 2. Spanish explorations and settlements in America from the fifteenth to the seventeenth century. Vol. 3. English explorations and settlements in North America, 1497-1689. Vol. 4. French explorations and settlements in North America and those of the Portuguese, Dutch, and Swedes, 1500-1700. Vol. 5. The English and French in North America, 1689-1763. Vol. 6-7. The United States of North America. Part 1-2. Vol. 8. The later history of British, Spanish, and Portuguese America.

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Osgood & Co., James R., publisher.**971 N500**

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Lovell & Son, John, publishers.**971 P500**

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Dawson, Samuel Edward.**971 P700**

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972 MEXICO. CENTRAL AMERICA. WEST INDIES

Romero, Matias.**L972 P800**

- ¹²⁵⁴⁸ Coffee and india-rubber culture in Mexico. Preceded by Geographical and statistical notes on Mexico. xxvi,[2],417 p. 1 pl. 1 map, 1 table. Q. New York: G. P. Putnam's Sons, 1898.
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Romero, Matias.**L972 P801**

- ¹⁵⁶⁵⁹ Mexico and the United States. A study of subjects affecting their political, commercial, and social relations, made with a view to their promotion. Vol. 1-. pl. facsim. maps. Q. New York: G. P. Putnam's Sons, 1898-.

Contents: Geographical and statistical notes on Mexico. The valley of Mexico's drainage. Historical notes on Mexico. The Anglo-Saxon and Roman systems of criminal jurisprudence. The Mexican free zone. Labor and wages in Mexico. The silver standard in Mexico. The Pan-American Conference of 1889. Supplement to the free zone paper. List of President's messages sent to Congress during the period of French intervention, from 1861 to 1867. Prepared by Mr. Clifford Warren.

The Geographical and statistical notes were previously published as introduction to Coffee and india-rubber in Mexico, by the same author.

Perry, G. R., *editor.*

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Hill, Robert Thomas.

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Davey, Richard.

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Jameson, John Franklin.**L973 P500**

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Lodge, Henry Cabot.**973.2 O100**

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Contents: Vol. 1. Virginia, Maryland, and the Carolinas; vol. 2-3. The Puritan colonies.

Winsor, Justin.**973.2 P500**

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Boston.**974.410 I**

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 "Selected list of journals of previous travelers down the Ohio," p. 320-328.
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Williams & Co., publishers.**977.117 5**

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Indiana state gazetteer.**977.2 1**

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 ——— Vol. 3, 7-8. 1882, 1890-1893. O. Chicago: R. L. Polk & Co., c. 1882-1893.

Moses, John.**977.3 0700**

- ³⁴²⁸ Illinois, historical and statistical, comprising the essential facts of its planting and growth as a province, county territory, and state. 2 vol. paged continuously; vol. 1: 1-551 p.; vol. 2: 553-1316 p. il. pl. por. facsim. maps. O. Chicago 1889-1892.

Lakeside.**L977.316 2**

- ¹⁸⁵¹ The Lakeside annual directory of the city of Chicago. Embracing a complete general and business directory, miscellaneous information, and street guide. Continued from [vol. 1.] 1874. O. Chicago c. 1874-.
 Vol. for 1876-1886 compiled by Thomas Hutchinson, 1887-, by Reuben H. Donnelley.
 Vol. for 1874-1891 are in Q.

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Moses, [John], & Kirkland, [Joseph], editors.**L977.316 P501**

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1618 p. 1 map. O. Chicago: R. L. Polk & Co., c. 1897.

Wright, Alfred G., publisher.

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Polk & Co., R. L., publishers.

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977.7 I

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ty-third year. Published biennially. 2132 p. O. St.
Louis, Mo., c. 1898.

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... . No. 25, [28]. 1896, 1899. O. St. Louis 1896—1899.

Roosevelt, Theodore.

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Contents: Vol. 1. From the Alleghanies to the Mississippi, 1769—1776. Vol. 2.
1777—1783. Vol. 3. The founding of the trans-Alleghany commonwealths, 1784—1790.
Vol. 4. Louisiana and the Northwest, 1791—1807.

Chapin, Frederick Hastings.

979 P200

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Boston: W. B. Clarke & Co., 1892.

Crocker Co., H. S., publishers.

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Elliott, Henry Wood.

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49 pl. 3 maps. O. New York: C. Scribner's Sons, 1887.

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Bates, Henry Walter.**980 N800**

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990-997 AUSTRALASIA. OCEANICA

Wallace, Alfred Russel.**990 P300**

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Contents: Vol. 1. Australia and New Zealand. Vol. 2. Malaysia and the Pacific archipelagoes.

Vol. 2 edited and greatly extended by F. H. H. Guillemard.

Stevens, Joseph Earle.**991.4 P800**

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Worcester, Dean Conant.**991.4 P801**

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Foreman, John.**991.4 P900**

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Scidmore, Eliza Ruhamah.

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PUBLICATIONS

Officers, committees, and by-laws. Chicago 1895. 13 p.

Officers, committees, and by-laws. Chicago 1898. 14 p.

First annual report for the year 1895. (With Record of organization.) Chicago 1897. 17 p.

Second annual report for the year 1896. (With Memorial of EDSON KEITH.) Chicago 1897. 19, [2] p.

Third annual report for the year 1897. Chicago 1898. 29 p.

Fourth annual report for the year 1898. (With By-laws of the Corporation.) Chicago 1899. 40 p.

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List of current periodicals. Preliminary edition. Chicago 1897. 20 p.

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